AV-27F703
AV-27F713
AV-27F803

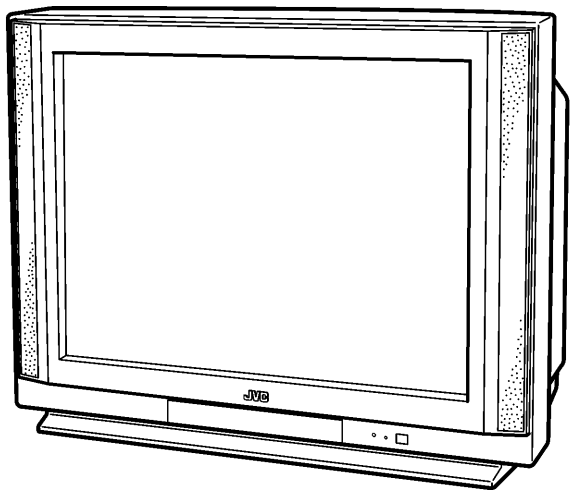
JVC

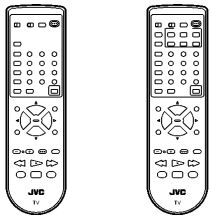
SERVICE MANUAL

COLOR TELEVISION

BASIC CHASSIS
GJ (No.A111)

AV-27F703/S
AV-27F713/S
AV-27F803/S





[RM-C326G]
RM-C326
AV-27F703
AV-27F713

[RM-C325G]
AV-27F803

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No. 52005
Jun. 2002

AV-27F703
AV-27F713
AV-27F803

SPECIFICATIONS

Items			Contents
Dimensions (W× H× D)			29-7/8"× 23"-3/8"× 19-3/4" (758mm × 593mm × 500mm)
Mass			94.6 lbs (43.0 kg)
TV System and Color System		TV RF System	CCIR(M)
		Color System	NTSC
		Sound System	BTSC System (Multi-Channel Sound)
TV Receiving Channels and Frequency		VL Band	(02～06) 54MHz～88MHz
		VH Band	(07～13) 174MHz～216MHz
		UHF Band	(14～69) 470MHz～806MHz
CATV Receiving Channels and Frequency		Low Band	(02～06, A-8) by (02～06&01)
		High Band	(07～13) by (07～13)
		Mid Band	(A～1) by (14～22)
		Super Band	(J～W) by (23～36)
		Hyper Band	(W+1～W+28) by (37～64)
		Ultra Band	(W+29～W+84) by (65～125)
		Sub Mid Band	(A8, A4～A1) by (01, 96～99)
			(54MHz～804MHz)
		TV/CATV Total Channel	180 Channels
Intermediate Frequency		Video IF Carrier	45.75MHz
		Sound IF Carrier	41.25MHz (4.5MHz)
Color Sub Carrier			3.58MHz
Power Input			120V AC, 60Hz
Power Consumption			140W
Picture Tube			27" (68cm) Measured Diagonally
High Voltage			30.0kV±1.3kV (at zero beam current)
Speaker			2"× 4-3/4" (5× 12cm) Oval type× 2
Audio Power Output			5W + 5W
Input terminals	Input 1 (Rear)	S-Video	Y : 1V(p-p) Positive (Negative sync provided, when terminated with 75Ω)
			C : 0.286V(p-p) (Burst signal, when terminated with 75Ω)
		Video	1V(p-p), 75Ω
		Audio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 2 (Rear)	Video	1Vp-p, 75Ω
		Component video	**Y** : 1V(p-p) Positive (Negative sync provided, when terminated with 75Ω)
			P_B, P_R : 0.7V(p-p), 75Ω
		Audio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 3 (Front)	Video	1V(p-p), 75Ω
		Audio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 4 (Rear) (For AV-27F803)		
		Component video	**Y** : 1V(p-p) Positive (Negative sync provided, when terminated with 75Ω)
			P_B, P_R : 0.7V(p-p), 75Ω
		Audio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
Fix Audio Output			500mV(rms), (-4dBs), LOW Impedance (400Hz when modulated 100%)
AV compulink Ⅲ Input			3.5mm mini jack
Antenna terminal			75Ω (VHF/UHF) Terminal, F-Type Connector
Remote Control Unit			RM-C326G(AV-27F703) / RM-C326(AV-27F713) /RM-C325G(AV-27F803) (AA/R6/UM-3 battery× 2)

Design & specifications are subject to change without notice.

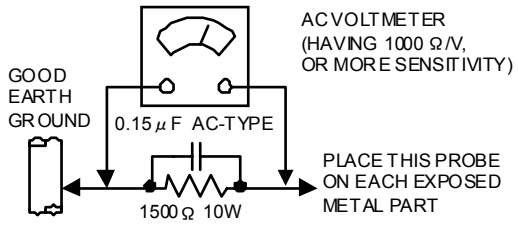
SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
   The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
10. **Isolation Check**
    (Safety for Electrical Shock Hazard)
    After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

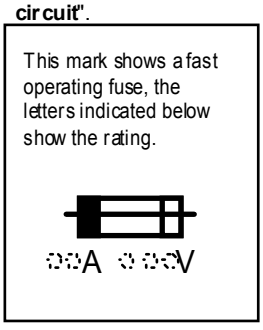
    (1) **Dielectric Strength Test**
    The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
    (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
    This method of test requires a test equipment not generally found in the service trade.

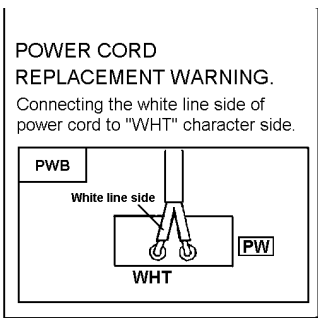
    (2) **Leakage Current Check**
    Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
    However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

    ● **Alternate Check Method**
    Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
    However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



11. **High voltage hold down circuit check.**
    After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
    See item "**How to check the high voltage hold down circuit**".





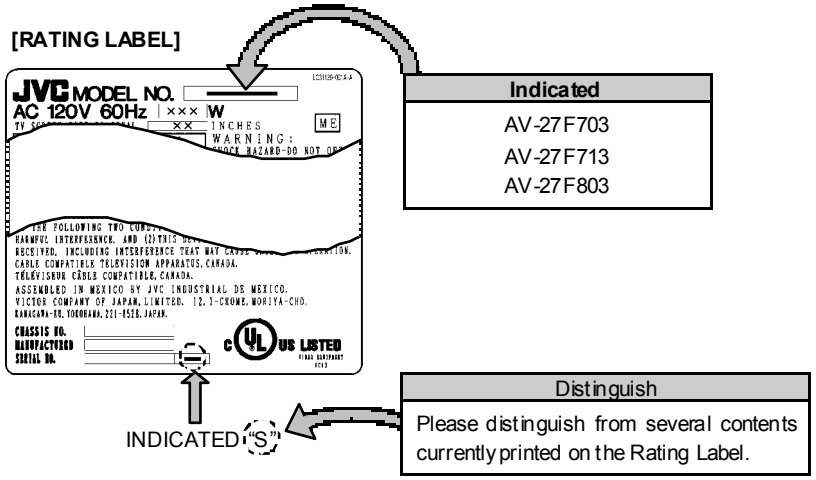
AV-27F703
AV-27F713
AV-27F803

FEATURES

- New chassis design enables use of a single board with simplified circuitry.
- Users can make fun to connect the DVD player with the component video signal input terminal.
- Provided with miniature tuner (TV/CATV).
- Multifunctional remote control permits picture adjustment.
- Adoption of the CHANNEL GUARD function prevents the specific channels from being selected, unless the "ID number" is key in.
- I^2C bus control utilizes single chip ICs.
- Adoption of the VIDEO STATUS / THEATER PRO. function.
- Adoption of the ON/OFF TIMER and SLEEP TIMER function.
- Built-in V-CHIP system.
- Closed-caption broadcasts can be viewed.
- Built-in MTS system, BBE / HYPER-SURROUND system.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Digital Comb filter Improved picture quality.
- Built-in EZ SURF system.(AV-27F803)
  By pushing the EZ SURF key, Back Program Information can be displayed in written from program Information uses a CALL LETTER (broadcasting station ID), a Network name and a Program name of XDS data, and collect's tuning of the tuner for PIP one by one.

HOW TO IDENTIFY MODELS

• How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label.



MAIN DIFFERENCE LIST

⚠	Model name / Parts Name	AV-27F703/S	AV-27F713/S	AV-27F803/S
	MAIN PWB	SGJ-1004A-M2	SGJ-1003A-M2	SGJ-1002A-M2
	PIP PWB	×	×	SGJ-4001A-M2
	AV SEL PWB	SGJ-5002A-M2	←	SGJ-5001A-M2
	3D Y/C SEP MODULE PWB	×	×	SGJ0Y001A-M2
⚠	FRONT CABI. ASSY	LC10878-003B-A	LC10878-004A-A	LC10878-003B-A
	JVC MARK	CM48006-008-C	CM48006-009-C	CM48006-008-C
⚠	DOOR	LC20628-001C-A	LC20628-002A-A	LC20628-001C-A
⚠	KNOB (POWER)	LC31237-001A-A	LC31237-002A-A	LC31237-001A-A
	OPERATION SHEET	LC31238-004A-A	LC31238-005A-A	LC31238-004A-A
⚠	CONTROL KNOB	LC20217-004B-A	LC20217-006A-A	LC20217-004B-A
⚠	TERMINAL BOARD	LC20899-004A-A	LC20899-004A-A	LC20899-005A-A
	REMOCON UNIT	RM-C326G-1A	RM-C326-1A	RM-C325G-1A
	INPUT TERMINAL	INPUT1～INPUT3	←	INPUT1～INPUT4

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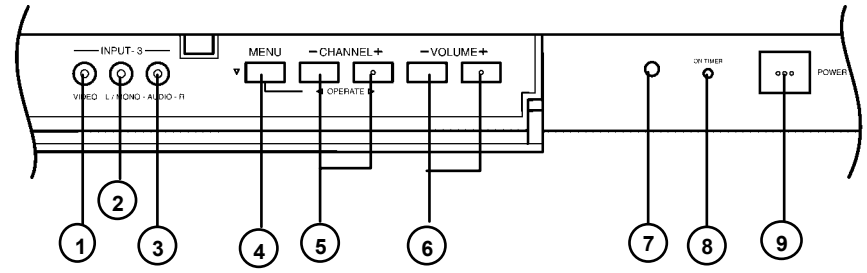
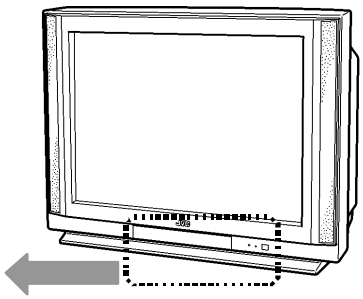
FUNCTIONS

■ FRONT PANEL CONTROL

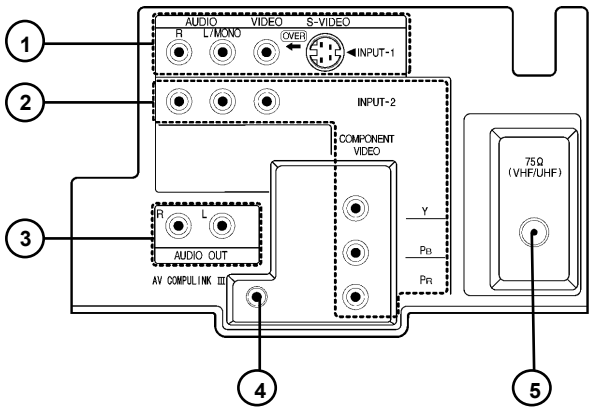




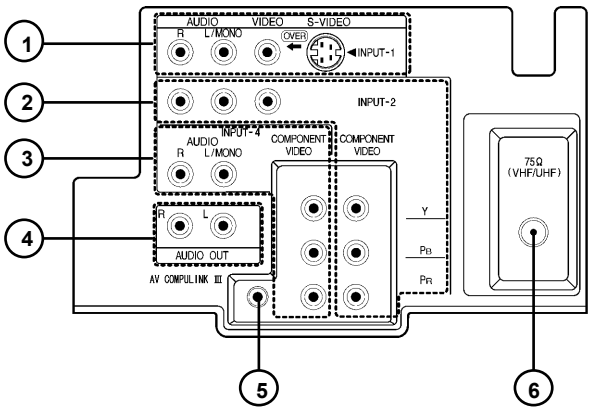
① INPUT3 VIDEO terminal	⑥ VOLUME **-/+** buttons
② INPUT3 AUDIO L / MONO terminal	⑦ SENSOR REMOTE CONTROL
③ INPUT3 AUDIO R terminal	⑧ ON TIMER LED
④ MENU button (▼)	⑨ POWER button
⑤ CHANNEL -/+ buttons OPERATE ◀/▶ buttons (use MENU screen)	

■ REAR TERMINAL

[AV-27F703/S, AV-27F713/S]



[AV-27F803/S]



[AV-27F703/S, AV-27F713/S]

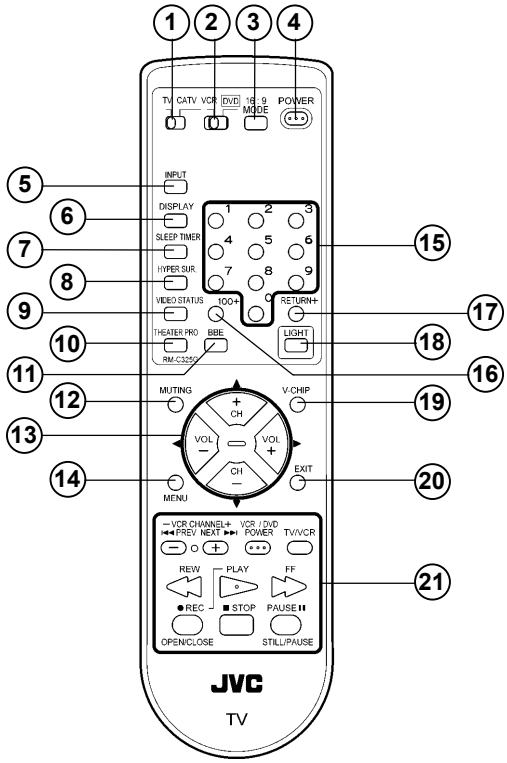
① INPUT 1 (S-VIDEO, V, L/MONO, R) terminals
② INPUT 2 (V, L / MONO, R) terminals / COMPONENT VIDEO(Y, P_B, P_R) terminals
③ AUDIO OUT(L, R) terminals
④ AV COMPULINK Ⅲ
⑤ VHF / UHF terminal

[AV-27F803/S]

① INPUT 1 (S-VIDEO, V, L/MONO, R) terminals
② INPUT 2 (V, L / MONO, R) terminals / COMPONENT VIDEO(Y, P_B, P_R) terminals
③ INPUT 4 (L, R) terminals / COMPONENT VIDEO(Y, P_B, P_R) terminals
④ AUDIO OUT(L, R) terminals
⑤ AV COMPULINK Ⅲ
⑥ VHF / UHF terminal

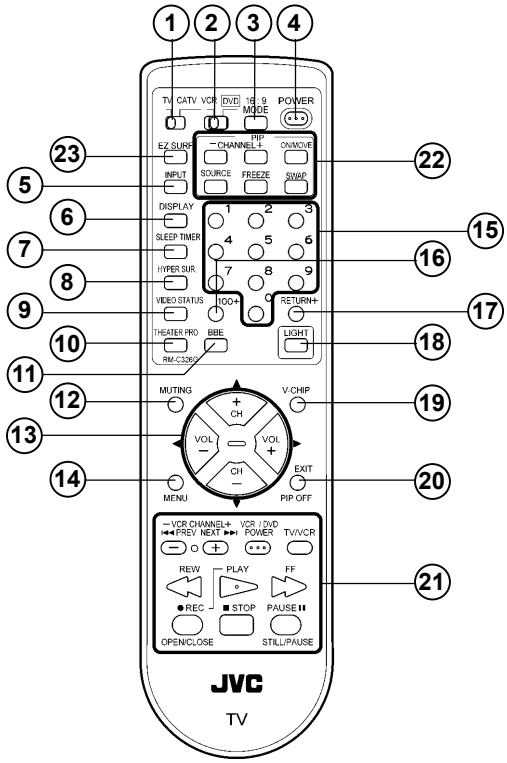
■REMOTE CONTROL UNIT

[RM-C326G : AV-27F703/S
RM-C326 : AV-27F713/S]



① TV / CATV switch
② VCR / DVD switch
③ 16 : 9 MODE Key
④ POWER Key
⑤ INPUT Key (TV → VIDEO1 → VIDEO2 → VIDEO3)
⑥ DISPLAY Key
⑦ SLEEP TIMER Key (0 → 15 → 30 ·····165 → 180)
⑧ HYPER SUR. Key (Can be changed ON / OFF)
⑨ VIDEO STATUS Key
⑩ THEATER PRO key
⑪ BBE key (Can be changed ON / OFF)
⑫ MUTING Key
⑬ FUNCTION Key (CH -/+ / VOL -/+) The FUNCTION keys operate CHANNEL and VOLUME normally. These keys are also used to navigate MENU system.
⑭ MENU Key
⑮ NUMBERS Key
⑯ 100+ Key
⑰ RETURN+ Key
⑱ LIGHT Key
⑲ V-CHIP Key
⑳ EXIT Key
㉑ VCR / DVD Keys

[RM-C325G : AV-27F803/S]



① TV / CATV switch
② VCR / DVD switch
③ 16 : 9 MODE Key
④ POWER Key
⑤ INPUT Key(TV → VIDEO1 → VIDEO2 → VIDEO3 → VIDEO4)
⑥ DISPLAY key
⑦ SLEEP TIMER Key (0 → 15 → 30 ·····165 → 180)
⑧ HYPER SUR. Key (Can be changed ON / OFF)
⑨ VIDEO STATUS Key
⑩ THEATER PRO key
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⑭ MENU Key
⑮ NUMBERS Key
⑯ 100+ Key
⑰ RETURN+ Key
⑱ LIGHT Key
⑲ V-CHIP Key
⑳ EXIT / PIP OFF Key
㉑ VCR / DVD Keys
㉒ PIP Key
㉓ EZ SURF Key (Back Program Information can be displayed.)

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SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Disconnect the power plug from wall outlet.
2. As shown in the Fig.1, remove the **12** screws marked Ⓐ .
3. Withdraw the rear cover backward.

REMOVING THE TERMINAL BOARD

- After removing the rear cover.

1. As shown in Fig.1, remove the screws marked Ⓑ .
2. Withdraw the terminal board toward you.

REMOVING THE CHASSIS

- After removing the rear cover / terminal board.

1. Slightly raise the both sides of chassis by hand and remove the 2 claws under the both side of the chassis from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, remove the wire clamp, connectors etc.)

REMOVING THE SPEAKER

- After removing the rear cover.

1. As shown in Fig. 1, removing the **4** screws marked Ⓒ , then remove the speaker.
2. Follow the same steps when removing the other hand speaker.

NOTE : When removing the **4** screws marked Ⓒ of the speaker, remove the lower side screw first, and then remove the upper one.

REMOVING THE LED & POWER SW PWB

- After removing the rear cover & terminal board.

1. Remove the **2** screws marked Ⓓ as shown in Fig.1.
2. Withdraw the LED & POWER SW PWB toward you.

∗ If necessary, remove the wire clamp, connector etc.

REMOVING THE FRONT CONTROL PWB

- After removing the rear cover & terminal board.

1. Remove the **2** screws marked Ⓔ as shown in Fig.1.
2. Withdraw the FRONT CONTROL PWB toward you.

∗ If necessary, remove the wire clamp, connector etc.

CHECKING THE CHASSIS

To check the PW Board from back side.

1. Pull out the chassis (refer to REMOVING THE CHASSIS).
2. Erect the chassis vertically so that you can easily check the back side of the PW Board.

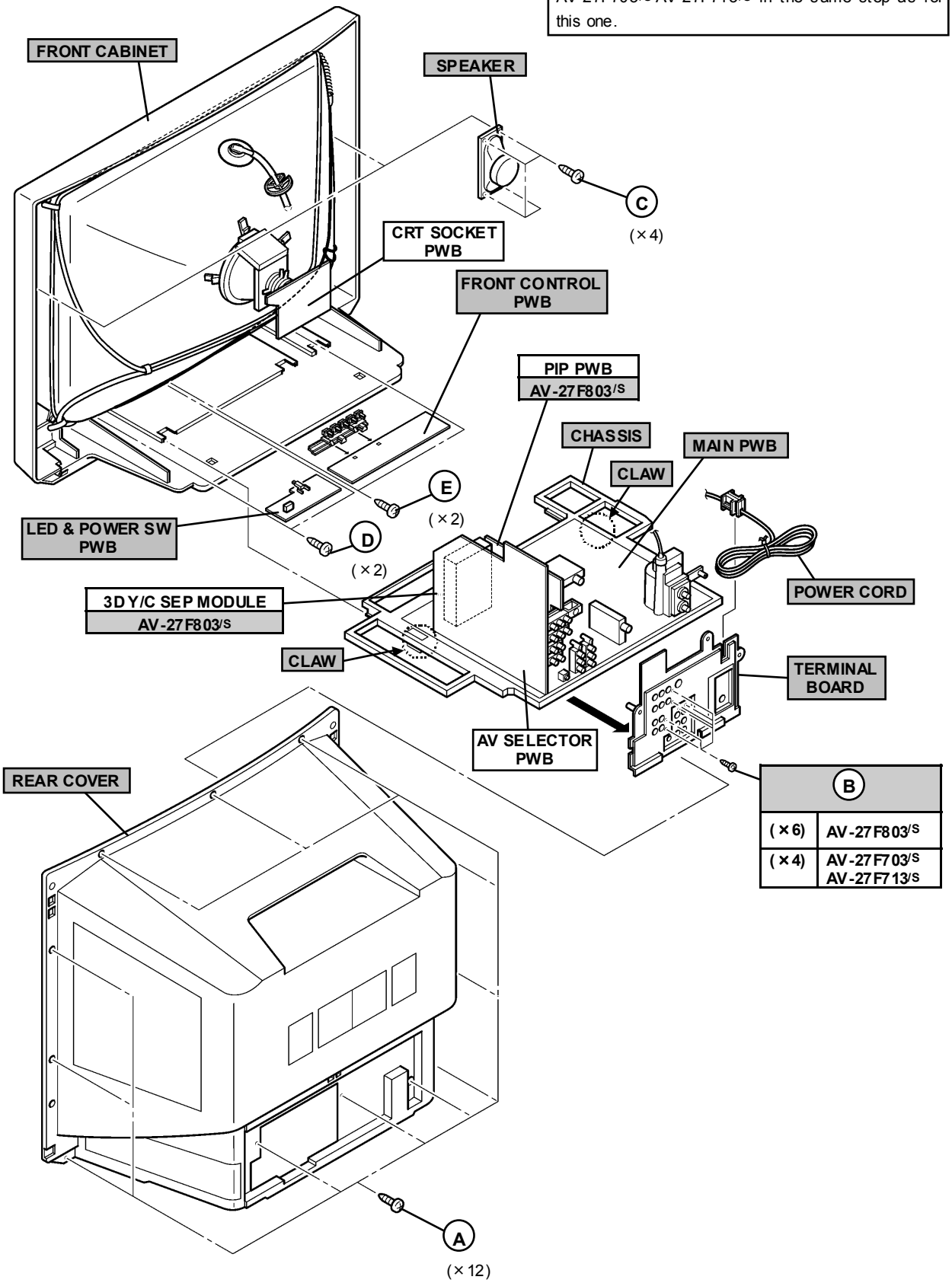
[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.**

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
   Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

This exploded view describes about the AV-27F803/S.
You can use the exploded view for disassembling the AV-27F703/S AV-27F713/S in the same step as for this one.



B	
(×6)	AV-27F803/S
(×4)	AV-27F703/S AV-27F713/S

Fig.1

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MEMORY IC REPLACEMENT

1. Memory IC

This TV uses memory IC.
This memory IC stores data for proper operation of the video and deflection circuits.
When replacing the memory IC, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

(1) Power off

Switch off the power and disconnect the power cord from the wall outlet.

(2) Replace the memory IC

Be sure to use a memory IC written with the initial setting data.

(3) Power on

Connect the power cord to the wall outlet and switch on the power.

(4) Confirm the system constant value

- 12.SYSTEM (SYS) do not adjust normally.
- The adjustment should not be done without signal.

■ **How to enter the SERVICE MENU.**

1) Press the **SLEEP TIMER** key and set **SLEEP TIMER** for 「**0 min**」.
2) Before disappear the display of **SLEEP TIMER** settings, simultaneously press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit.
3) The SERVICE MENU screen will be displayed as shown Fig.1.

■ **How to enter the 12. SYSTEM(SYS).**

1) While the SERVICE MENU is displayed, select the **12.SYSTEM(SYS)** item with FUNCTION (▼/▲) keys, and the FUNCTION (◀/▶) keys is pressed, the screen will be displayed as shown in Fig.2.
5) Refer to the SYSTEM (SYSTEM CONSTANT) TABLE 1 and check the setting items. If the value is different, select the setting item with the FUNCTION (▼/▲) keys and adjust the setting with the FUNCTION(◀/▶) keys. (The letters of the selected item are displayed in yellow.)
6) When adjustment has completed, the values store into memory IC automatically
7) Press the EXIT key to return the SERVICE MENU screen.
8) Then press the EXIT key again to return the normal screen.

(5) Receive the channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

(6) User settings

Check the user setting items according to TABLE 2.
Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

(7) SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary(Fig.1).
Refer to the SERVICE ADJUSTMENT for setting.

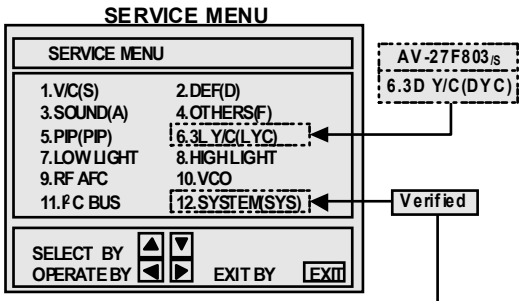


Fig.1

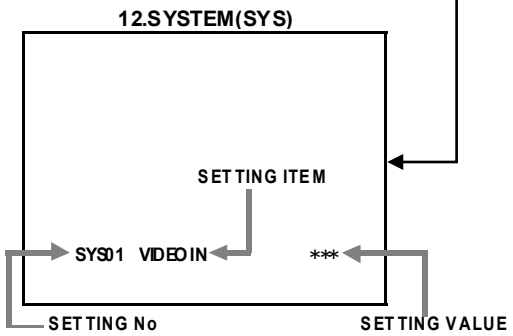
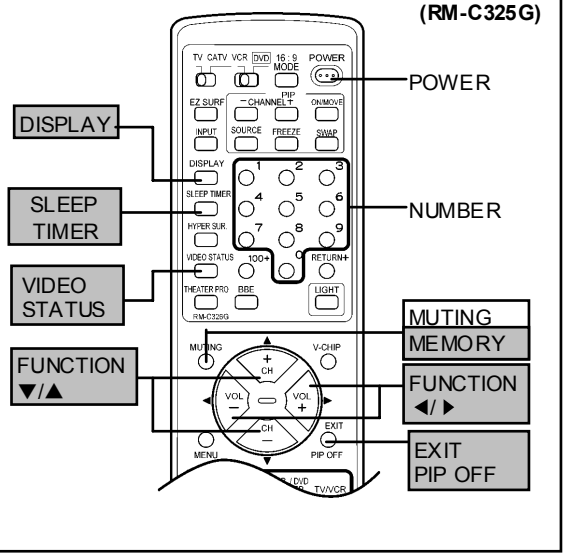


Fig.2

KEY ASSIGNMENT OF REMOTE CONTROL UNIT



NOTE Although design is different, each remote controller has the same control function.

12.SYSTEM(SYS) 【System Constant setting】

No.	Setting item	Initial setting value		No.	Setting item	Initial setting value	
		AV-27F803/S	AV-27F703/S AV-27F713/S			AV-27F803/S	AV-27F703/S AV-27F713/S
SYS01	VIDEO IN	**04**	**03**	SYS13	HYP SURR	**01**	**01**
SYS02	PIP	**01**	**00**	SYS14	16:9 MD	**01**	**01**
SYS03	3D Y/C	**01**	**00**	SYS15	HYP SCAN	**01**	**01**
SYS04	Y CV	**01**	**01**	SYS16	EZ SURF	**01**	**00**
SYS05	CCD PCHK	**01**	**01**	SYS17	ID DISP	**01**	**01**
SYS06	PURITY	**00**	**00**	SYS18	COMPULINK	**01**	**01**
SYS07	VM	**01**	**01**	SYS19	CCD	**01**	**01**
SYS08	NOISE CR	**01**	**00**	SYS20	VCHIP	**01**	**01**
SYS09	CLR TEMP	**01**	**01**	SYS21	VCHIP CA	**01**	**01**
SYS10	THEATER	**01**	**01**	SYS22	JVC LOGO	**01**	**01**
SYS11	THEATER PRO	**01**	**01**	SYS23	CMP IN	**01**	**01**
SYS12	BBE	**01**	**01**	SYS24	CXA1875	**00**	**00**

Table 1

User setting

Setting item	Setting value	Setting item	Setting value
Use remote controller keys			
POWER	OFF	DISPLAY	OFF
CHANNEL	Cable-02	VIDEO STATUS	DYNAMIC
VOLUME	10	HYPER SURROUND	OFF
TV/VIDEO	TV	BBE	ON
		PIP SOURCE	Cable-04 (AV-27F803/S)
Settings of MENU			
PICTURE MENU		**INITIAL SETUP MENU**	
STANDARD		LANGUAGE	ENG
TINT	CENTER	FRONT PANEL LOCK	OFF
COLOR	CENTER	V2 COMPONENT-IN	NO
PICTURE	CENTER+14	AUTO SHUT OFF	OFF
BRIGHT	CENTER	CLOSED CAPTION	OFF (CC1 / T1)
DETAIL	CENTER / +14 (AV-27F803/S) +10 (AV-27F703/S / AV-27F713/S)	AUTO TUNER SET UP	Unnecessary to set
COLOR TEMPERATURE	LOW	CHANNEL SUMMARY	Setting Channel Guard channel : All OFF
NOISE MUTING	ON	V-CHIP	OFF
SOUND ADJUST MENU		SET LOCK CODE	(0000) Unnecessary to set
BASS	CENTER	XDS ID	ON
TREBLE	CENTER		
BALANCE	CENTER		
MTS	STEREO		
CLOCK / TIMERS MENU			
SET CLOCK	MANUAL		
	TIME ZONE : PACIFIC		
	D.S.T. : OFF		
ON / OFF TIMER	OFF		

Table 2

AV-27F703
AV-27F713
AV-27F803

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. **You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.**
2. **Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. **Never touch any adjustment part** which are not specified in the list for this adjustment - variable resistors, transformers, initial setting value, etc.
7. Presetting before adjustment.
   Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

User menu preset value

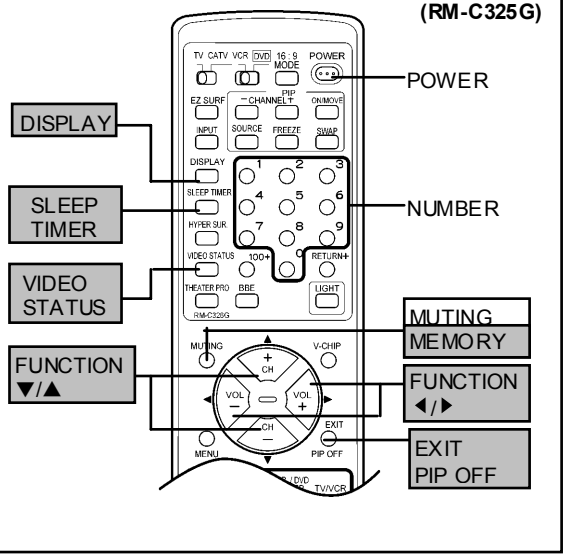
MENU ITEM	PRESET
VIDEO STATUS	STANDARD
BASS, TREBLE, BALANCE	CENTER
HYPER SURROUND	OFF
TINT, COLOR, PICTURE, BRIGHT, DETAIL	CENTER
MTS	STEREO

ADJUSTMENT EQUIPMENT

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator.
6. Frequency counter

KEY ASSIGNMENT OF REMOTE CONTROL UNIT

(RM-C325G)

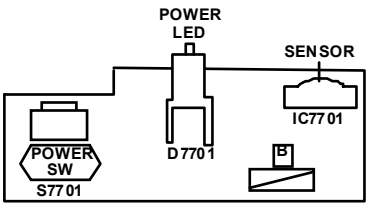


ADJUSTMENT ITEMS

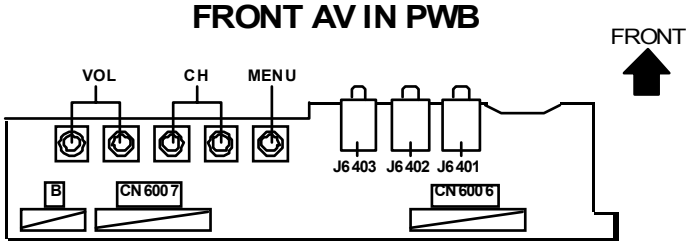
● CHECK OF B1 POWER SUPPLY	● ADJUSTMENT OF VIDEO / CHROMA CIRCUIT
● ADJUSTMENT OF VCO	WHITE BALANCE(High Light & Low Light) adjustment
MAIN VCO adjustment	PIP WHITE BALANCE(High Light) adjustment
SUB VCO adjustment	SUB BRIGHT adjustment
RF. AGC adjustment	SUB CONTRAST adjustment
● FOCUS adjustment	SUB COLOR adjustment
● ADJUSTMENT DEF CIRCUIT	SUB TINT adjustment
V. HEIGHT / V. CENTER(4:3) adjustment	● ADJUSTMENT OF MTS CIRCUIT
V. HEIGHT / L. LIN(16:9) adjustment	MTS INPUT LEVEL adjustment
H. POSI, H. SIZE & SIDE PIN [(4:3) &(16:9)] adjustment	MTS SEPARATION adjustment
PIP DISPLAY POSI adjustment	● HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

ADJUSTMENT LOCATIONS

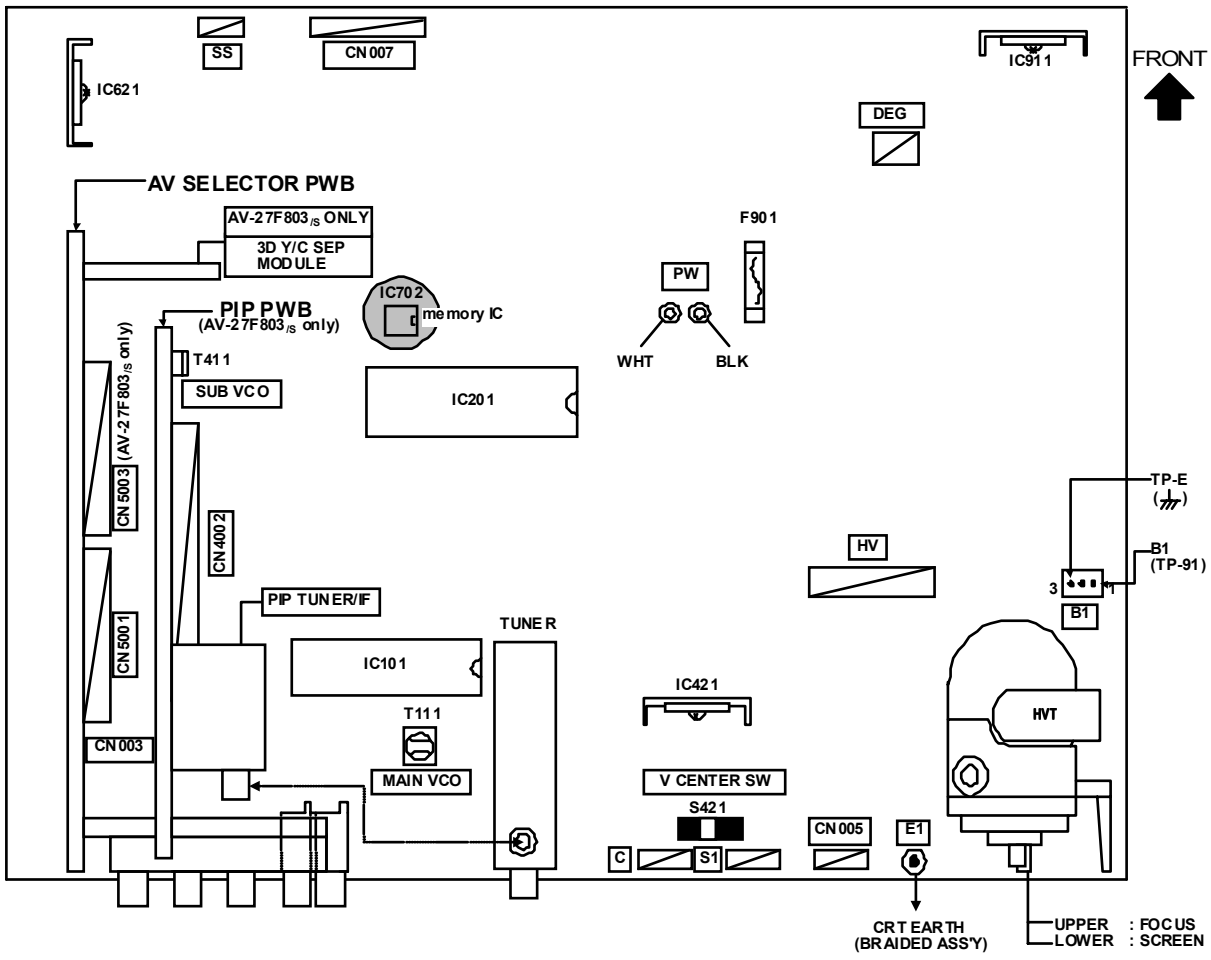
LED & PW SW PWB



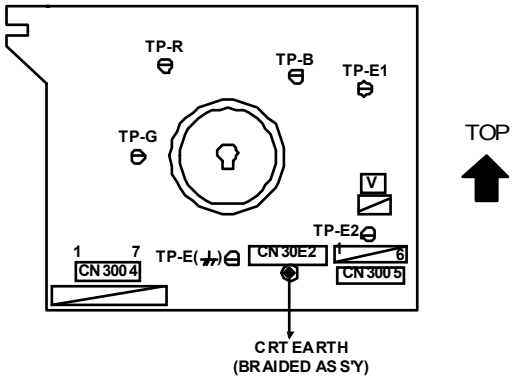
FRONT AV IN PWB



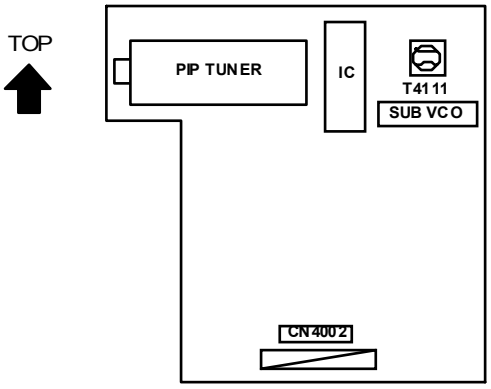
MAIN PWB



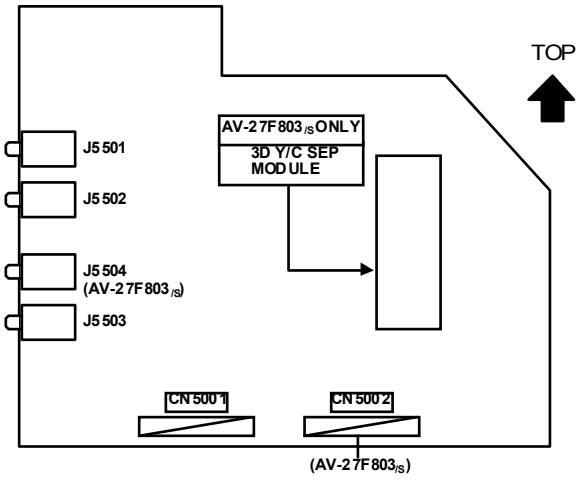
CRT SOCKET PWB



PIP PWB(AV-27F803/S)



AV SELECTOR PWB



BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION
Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

(1) V/C (S) ····· This set the setting values (adjustment values) of the VIDEO/CHROMA circuits.
(2) DEF (D) ····· This set the setting values (adjustment values) of the DEFLECTION circuit.
(3) SOUND (A) ····· This set the setting values (adjustment values) of the AUDIO circuit.
(4) OTHERS (F) ····· This is used when the OTHERS MODE is verified. **[Do not adjust]**
(5) PIP (PIP) ····· This set the setting values(adjustment values) of the PICTURE-IN-PICTURE circuit. (PIP is means as Picture In Picture) **[AV-27F803/S]**
(6) 3LY/C(LYC) / 3DY/C(DYC) ····· This is used when the 3L(or 3D) Y/C MODE is verified. **[Do not adjust]**
[3L Y/C(LYC) =AV-27F703/S, AV-27F713/S / 3D Y/C(DYC)=AV-27F803/S]
(7) LOW LIGHT ····· This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
(8) HIGH LIGHT ····· This sets the setting values (adjustment values) of the WHITE BALANCE circuit
(9) RF AFC ····· This is used when the RF AFC MODE is verified. **[Do not adjust]**
(10)VCO ····· This is used when the IF VCO is adjusted.
(11)I²C BUS ····· This is used when ON/OFF of the I²C BUS CTRL is set. **[Fixed ON]**
(12)SYSTEM (SYS) ····· This is used when the SYSTEM is verified. **[Fixed value]**

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

Press the **SLEEP TIMER** key and set the **SLEEP TIMER** for 「**0** MIN」.
Then press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit at the same time to enter the SERVICE MENU screen.(FIG.1)

SERVICE MENU

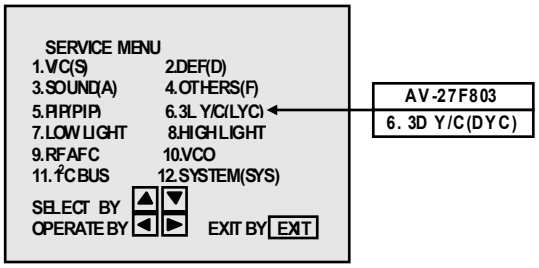


Fig.1

(2) SERVICE MENU screen selection

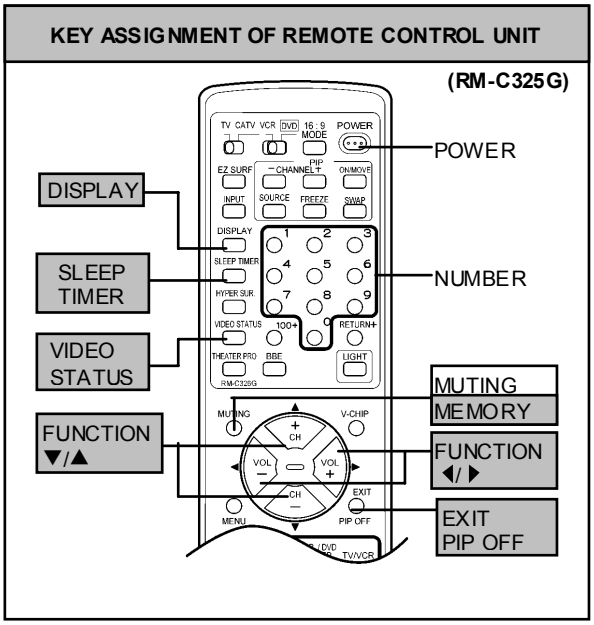
In SERVICE MENU, press the FUNCTION (▼/▲) key to select any of the SUB MENU items.
(The letters of the selected items are displayed in yellow.)

(3) Enter the any setting (adjustment) mode

- **1. V/C(S), 2. DEF(D), 3. SOUND(A), 4. OTHERS(F), 5. PIP(PIP), 6. 3L Y/C(LYC)** [AV-27F703/S / AV-27F713/S] **/ 3D Y/C(DYC)** [AV-27F803/S], **7. LOW LIGHT, 8. HIGH LIGHT, 9. RF AFC, 10. VCO, 11. I²C BUS** and **12. SYSTEM(SYS)** mode.

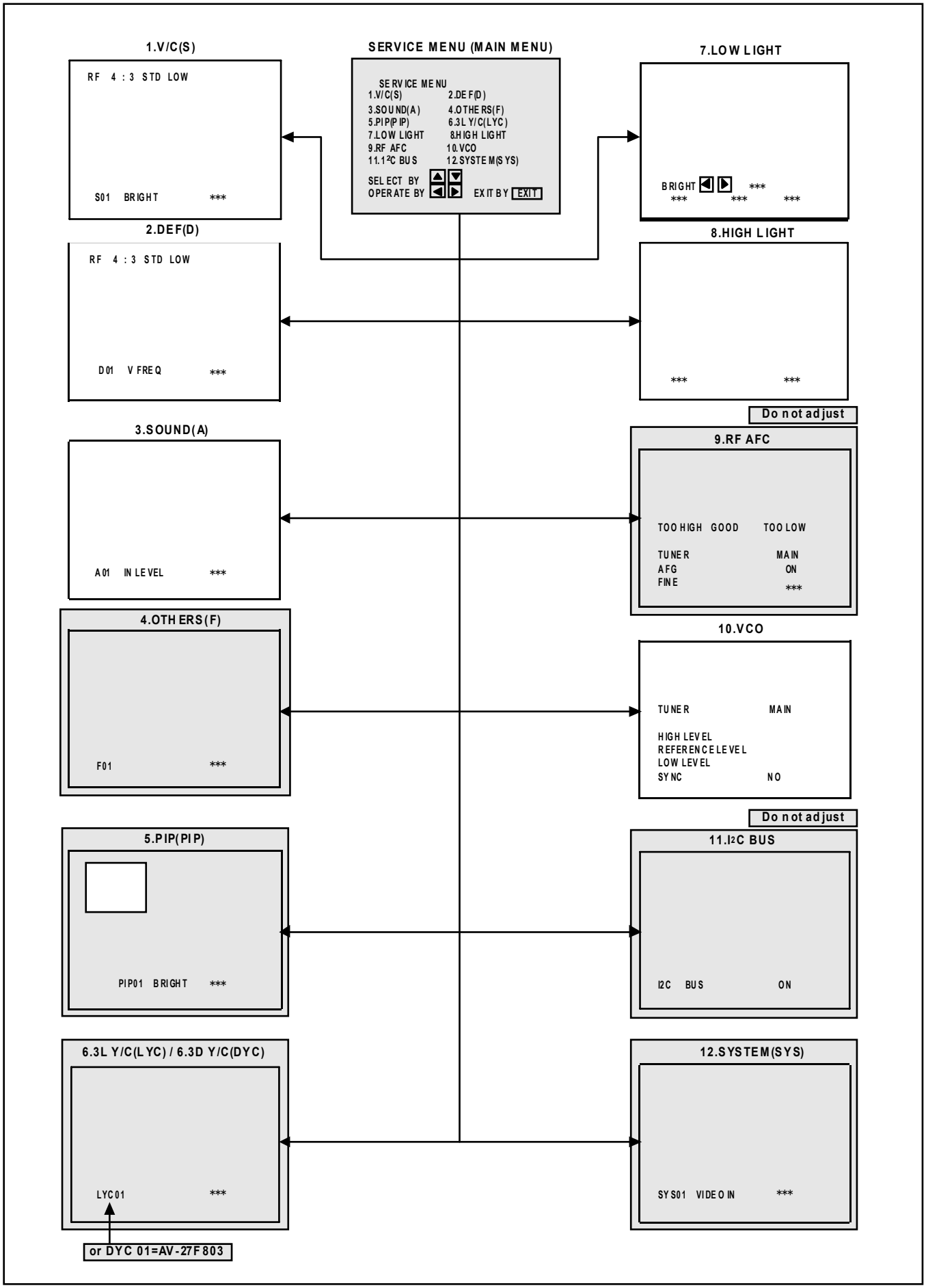
1) If select any of **1. V/C(S) / 2. DEF(D) / 3. SOUND(A) / 4. OTHERS(F) / 5. PIP(PIP) / 6. 3L Y/C(LYC)** [AV-27F703/S / AV-27F713/S] **, 3D Y/C(DYC)** [AV-27F803/S] **/ 7. LOW LIGHT / 8. HIGH LIGHT / 9. RF AFC / 10. VCO / 11. I²C BUS / 12. SYSTEM(SYS)** items, and the FUNCTION (◀/▶) key is pressed from SERVICE MENU (MAIN MENU), the each screens will be displayed as shown in figure page later.
2) Then the settings or verifications can be performed

KEY ASSIGNMENT OF REMOTE CONTROL UNIT



NOTE Although design is different, each remote controller has the same control function.

AV-27F703
AV-27F713
AV-27F803

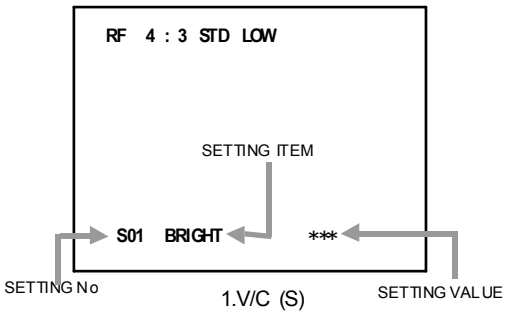


(4) Setting method

1) FUNCTION (▼/▲) key.
Select the SETTING ITEM.

2) FUNCTION (◀/▶) key
Setting (adjust) the SETTING VALUE of the SETTING ITEM.
When the key is released the SETTING VALUE will be stored (memorized).

3) EXIT key
Returns to the previous screen.



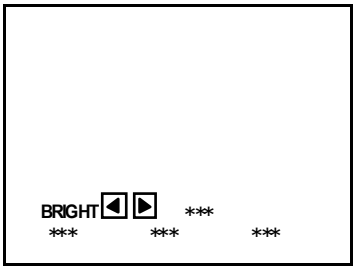
1.V/C (S)

(5) Releasing SERVICE MENU

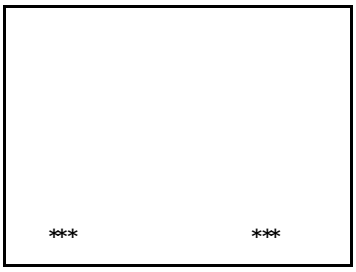
1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.

★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.

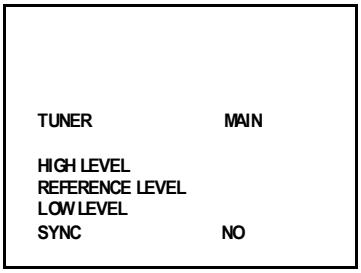
★ The setting for MAIN VCO are described in the VCO page of ADJUSTMENT.



7.LOW LIGHT



8.HIGH LIGHT



10.VCO

AV-27F703
AV-27F713
AV-27F803

INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
2. Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT".

● V / C MODE

-- can not be adjustment

No.	Setting item	RF						STANDARD(4:3)			
		AV-27F803/S			AV-27F703/S,AV-27F713/S			EXTERNAL (S,CV)		COMPONENT	
		STD(4:3)	STD(16:9)	THEATER (4:3)	STD(4:3)	STD(16:9)	THEATER (4:3)	AV-27F803/S	AV-27F703/S AV-27F713/S	AV-27F803/S	AV-27F703/S AV-27F713/S
S01	BRIGHT	64	--	--	64	--	--	--	--	--	--
S02	PICTURE	60	--	--	60	--	--	--	--	--	--
S03	COLOR	50	--	--	50	--	--	--	--	46	46
S04	TINT	68	--	--	68	--	--	--	--	72	72
S05	DETAIL	38	--	--	33	--	--	40	35	45	40
S06	BRIGHT +-	--	±00	+01	--	±00	+01	-01	-02	±00	±00
S07	PICT+-	--	-08	-10	--	-08	-10	±00	±00	±00	±00
S08	COLOR+-	--	±00	-03	--	±00	-03	-02	-02	--	--
S09	TINT+-	--	±00	-03	--	±00	-03	+11	+05	--	--
S10	DETAIL+-	--	--	±00	--	--	±00	--	--	--	--

No.	Setting item	Initial setting value							
		RF/EXT (S,CV)				COMPONENT			
		STANDARD		THEATER		STANDARD		THEATER	
		LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S11	R CUT OFF	30	--	--	--	--	--	--	--
S12	G CUT OFF	30	--	--	--	--	--	--	--
S13	B CUT OFF	30	--	--	--	--	--	--	--
S14	R DRIVE	64	--	--	--	--	--	--	--
S15	B DRIVE	64	--	--	--	--	--	--	--
S16	R CUT+-	--	±00	±00	±00	-10	--	--	--
S17	G CUT+-	--	±00	±00	±00	±00	--	--	--
S18	B CUT+-	--	±00	±00	±00	-10	--	--	--
S19	R DRV+-	--	+05	+13	+07	±00	--	--	--
S20	B DRV+-	--	+06	-25	-09	±00	--	--	--
S21	NTSC MAT	03	03	01	01	02	02	01	01
S22	BLACK ST	02	--	02	--	--	--	--	--
S23	DCREST	01	--	01	--	--	--	--	--
S24	DCRSW	01	--	01	--	--	--	--	--

No.	Setting item	Initial setting value		
		RF	EXTERNAL	COMPONENT
S25	ASY SHRP	04	04	04
S26	BPF FO	00	00	--
S27	KILR OFF	00	00	--
S28	KILR SEN	01	01	--

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
S29	RGB MUTE	00	S39	Y MUTE	00
S30	BLUE B	00	S40	SVM GAIN	03
S31	VIDEO SW	03	S41	SVM PH	01
S32	CMP ABCL	00	S42	WPL	00
S33	OSD ABCL	00	S43	COL GMM	00
S34	OSD CONT	07	S44	V1 GAIN	04
S35	SUB CONT	05	S45	AGC ADJ	63
S36	ABL GAIN	00	S46	VMOFF DE	+03
S37	ABL PNT	03	S47	APC CLK	01
S38	Y GAMMA	01			

-- can not be adjustment

- **DEF MODE**

No.	Setting item	Initial setting value			No.	Setting item	Initial setting value		
		AV-27F803/S,AV-27F703/S AV-27F713/S					AV-27F803/S,AV-27F703/S AV-27F713/S		
		RF (4:3)	RF (16:9)	EXT (4:3)			RF (4:3)	RF (16:9)	EXT (4:3)
D01	V FREQ	00	00	03	D18	WVMT BTM	00	01	00
D02	AFC GAIN	00	00	02	D19	EWCR TOP	12	--	12
D03	H POSI	20	--	20	D20	EWCR T+-	--	00	--
D04	H POSI+-	--	00	--	D21	EWCR BTM	14	--	14
D05	V PHASE	00	--	00	D22	EWCR B+-	--	00	--
D06	V PH+-	--	00	--	D23	EW PARA	36	--	36
D07	V SIZE	75	--	75	D24	EW PARA+-	--	-15	--
D08	V SIZE+-	--	-30	--	D25	V EHT	00	--	00
D09	V CENTER	32	--	32	D26	V EHT+-	--	00	--
D10	V CENT+-	--	00	--	D27	H EHT	00	--	00
D11	V S CORR	09	--	09	D28	H EHT+-	--	00	--
D12	V S CO+-	--	00	--	D29	TRAPEZ	31	--	31
D13	V LIN	10	--	10	D30	TRAPEZ+-	--	00	--
D14	V LIN+-	--	00	--	D31	V AGC	00	00	00
D15	H SIZE	33	--	33	D32	BLANK SW	00	00	00
D16	H SIZE+-	--	00	--	D33	VRMP BI	00	00	00
D17	WVMT TOP	00	01	00					

- **SOUND MODE**

No.	Setting item	Initial setting value
A01	IN LEVEL	10
A02	LOW SEP	32
A03	HI SEP	32
A04	SAPC	00
A05	BBE BASS	±00
A06	BBE TRE	-03

AV-27F703
AV-27F713
AV-27F803

- **OTHERS MODE (Do not adjust)**

Setting item do not display

No.	Setting item	Initial setting value		No.	Setting item	Initial setting value	
		AV-27F803/S	AV-27F703/S AV-27F713/S			AV-27F803/S	AV-27F703/S AV-27F713/S
F01	OSD POSI	37	37	F15	VCSN 1	00	00
F02	OSD PREQ	90	90	F16	VCSN 2	10	10
F03	CCD POSI	39	39	F17	VCSN 3	20	20
F04	CCD FREQ	91	91	F18	VCSN STP	02	02
F05	CCD CONT	04	04	F19	VN DAT A	+08	+08
F06	PUR WBCK	00	00	F20	VM DAT B	-08	-08
F07	PUR CONT	02	02	F21	VM DAT C	-20	-20
F08	SN TYPE	01	02	F22	VM DAT D	-32	-32
F09	YCSN TM	05	05	F23	VM DAT E	01	01
F10	YCSN E	05	05	F24	VMOFF TY	02	02
F11	YCSN F	16	16	F25	YC VMOFF	255	255
F12	YCSN G	32	32	F26	EZSF TM	40	40
F13	VNR CHK	03	03	F27	XDSID TM	15	15
F14	VCSN TM	05	05	F28	FM TRAP	01	01

- **3L Y / C MODE (Do not adjust)**

No.	Setting item	Initial setting value
		AV-27F703/S,AV-27F713/S
LYC01	MODE	04
LYC02	VENH	01
LYC03	PDSOFF	00
LYC04	CB	00
LYC05	VNLR	02
LYC06	GSEL0	00
LYC07	GSEL1	01
LYC08	COR	00
LYC09	TRAP	01
LYC10	CHTRAP	00
LYC11	CBPF	00
LYC12	ENHOFF	00

- **3DY / C MODE [AV-27F803/S]**

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
DYC01	D7-0	21	DYC15	D7-0	09
DYC02	D7-4	00	DYC16	D7-0	241
DYC03	D1-0	00	DYC17	D7-0	37
DYC04	D7-0	193	DYC18	D7-0	08
DYC05	D7-3	04	DYC19	D7-0	68
DYC06	RF CDL	02	DYC20	D7-0	48
DYC07	EXT CDL	02	DYC21	D7-0	08
DYC08	D7-0	42	DYC22	D7-0	51
DYC09	D7-0	36	DYC23	D7-0	200
DYC10	D7-0	34	DYC24	D7-0	74
DYC11	D7-0	01	DYC25	D7-0	236
DYC12	D5-0	22	DYC26	D7-0	00
DYC13	D7-0	00	DYC27	D7-0	00
DYC14	D7-0	15	DYC28	3DYC	01

- **PIP MODE (Do not adjust)[AV-27F803/S]**

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
PIP01	BRIGHT	**00**	PIP27	UVPOLAR	**00**
PIP02	PICTURE	**30**	PIP28	MAT	**01**
PIP03	TINTI	**42**	PIP29	YCOR	**01**
PIP04	COLOR	**06**	PIP30	XFREQF	**01**
PIP05	R CUTOFF	**00**	PIP31	WTCHDG	**01**
PIP06	G CUTOFF	**00**	PIP32	COLON	**00**
PIP07	B CUTOFF	**00**	PIP33	ACQNEW	**00**
PIP08	R DRIVE	**63**	PIP34	DSTDET	**01**
PIP09	G DRIVE	**65**	PIP35	CRIBEOK	**00**
PIP10	B DRIVE	**65**	PIP36	FCBEOK	**00**
PIP11	L POSI	**22**	PIP37	NOCRID	**00**
PIP12	R POSI	**15**	PIP38	NONSED	**00**
PIP13	UPR POSI	**12**	PIP39	PIP ADJ	**04**
PIP14	LWR POSI	**11**	PIP40	BRI EXT	**00**
PIP15	PICT LCK	**01**	PIP41	PCT EXT	**00**
PIP16	SELDEL	**00**	PIP42	TNT EXT	**00**
PIP17	AGCFIX	**01**	PIP43	COR EXT	**00**
PIP18	AGCADST	**00**	PIP44	R-D EXT	**00**
PIP19	AGC	**07**	PIP45	G-D EXT	**00**
PIP20	BLKINVB	**00**	PIP46	B-D EXT	**00**
PIP21	BLKINVR	**00**	PIP47	BRT COMP	**00**
PIP22	VSPDEL	**00**	PIP48	PCT COMP	**00**
PIP23	VSPISQ	**01**	PIP49	TNT COMP	**40**
PIP24	RGBIN	**00**	PIP50	COR COMP	**05**
PIP25	FRSEL	**01**	PIP51	R-D COMP	**00**
PIP26	OUTFOR	**00**	PIP52	G-D COMP	**00**
			PIP53	B-D COMP	**00**

NOTE The AV-27F703/S, AV-27F713/S model do not have PIP function, But, if memory data is out of variable range, occasionally some problems happen. Then we need to input these data.

AV-27F703
AV-27F713
AV-27F803

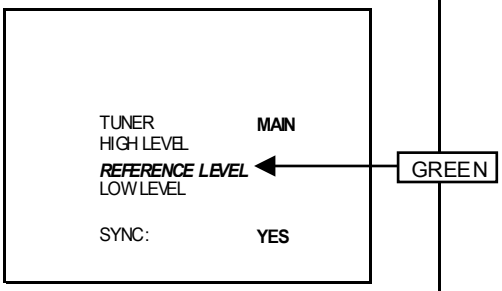
■ ADJUSTMENTS

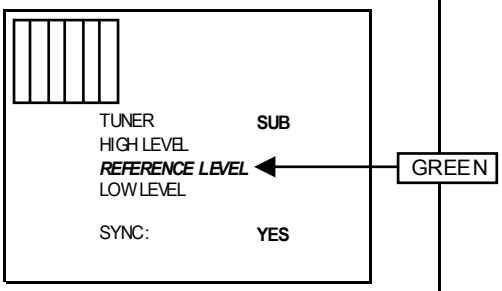
B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	**DC Voltmeter**	**【B1】 Connector (pin1 & pin3)** **TP-91(pin1)** **TP-E(⏚):(pin3)**		1. Receive the black-and-white signal. (color off) 2. Connect the DC voltmeter to【B1】connector pin【1】(TP-91) and TP-E(⏚) (B1 connector pin【3】). 3. Confirm that the voltage is DC134.5V±2V.

ADJUSTMENT OF VCO

Item	Measuring instrument	Test point	Adjustment part	Description
MAIN VCO adjustment	**Signal generator**		**10:VCO MAIN** **CW TRANSF.(T111) [MAIN PWB]**	● It must not adjust without signal 1. Receive color bar signal. 2. Enter the SERVICE MENU mode. 3. Press the ▲ key, and select the 10:VCO mode from the SERVICE MENU. 4. Push the FUNCTION ◀/▶ key, and select MAIN. 5. Confirm that the color change from **HIGH LEVEL** to **LOW LEVEL** by CW TRANSF T111 at MAIN PWB, and check the **SYNC : YES**. 6. Adjust until ***REFERENCE LEVEL*** mark turns green. And then confirm that the **SYNC : YES** again. 7. Press the EXIT key to get out SERVICE MENU.
SUB VCO adjustment **(AV-27F803 ONLY)**	**Signal generator**		**10:VCO**	● It must not adjust without signal 1. Receive color bar signal. 2. Enter the SERVICE MENU mode. 1. Press the FUNCTION (▲) key, and select the 10:VCO mode from the SERVICE MENU. 4. Push the left / right (◀/▶) key, and select SUB. 5. Confirm that the change from **HIGH LEVEL** to **LOW LEVEL** by CW transformer T4111 at PIP PWB, and check the **SYNC : YES**. 6. Adjust until ***REFERENCE LEVEL*** mark turns green. And then confirm that the **SYNC : YES** again. 7. Press the EXIT key to get out SERVICE MENU screen.





ADJUSTMENT OF RF AGC

Item	Measuring instrument	Test point	Adjustment part	Description
RF. AGC adjustment			**S45:AGC ADJ**	1. Receive a black and white signal (color off). 2. Select **S45:AGC ADJ** of the V/C MODE. 3. Press the MUTING key and turn off color. 4. With the FUNCTION ◀ key to get the noise in the screen picture (zero side of setting value). 5. Press the FUNCTION ▶ key several times and step when noise disappears from the screen (at that time, not to increase the value too much). 6. Change to other channels and make sure that there is no irregularity. 7. Press the MUTING key and get color out.

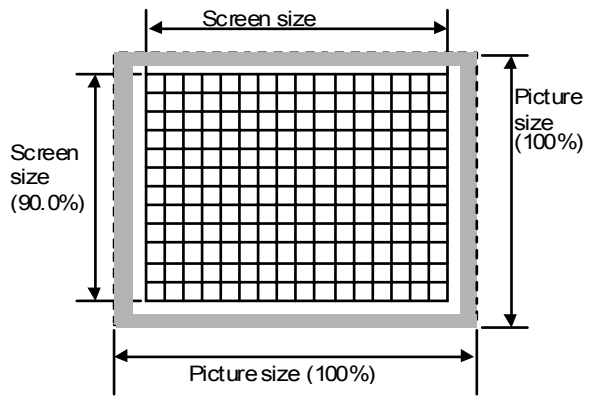
No.	Setting item	Variable range	Initial setting value
S45	**AGC ADJ**	0～127	**63**

ADJUSTMENT OF FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	**Signal generator**		**FOCUS VR [In HVT]**	1. Receive the cross-hatch signal. 2. While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be thinnest and sharpest center horizontal line. 3. Make sure that the picture is in focus even when the screen gets darkened.

ADJUSTMENT OF DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT V. CENTER adjustment (4:3)	**Signal generator**		**D05:V PHASE** **D07:V SIZE** **V. CENTER SW (S1421) [MAIN PWB]**	1. Receive the cross-hatch signal. 2. Enter the SERVICE MENU. 3. Select the **D05:V PHASE** of the 2.DEF (D) item, and it checks that the value of **D05:V PHASE** is **0**. 4. Adjust the vertical screen size of the visible screen top to 90.0% with the **D07:V SIZE** and **V CENTER SW S1421.** ＊ Bottom is to be located with 85%～95% range. ＊ It adjust it by DEF SERVICE **D13: V LIN.** And **D11: VS CORR.** when vertical linearity is not even.



No.	Setting item	Variable range	Initial setting value
D05	**V PHASE**	0～7	**00**
D07	**V SIZE**	0～127	**75**

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT V. LINEARITY adjustment (16:9)	**Signal generator**		**D18:V. SIZE+- D14:V. LINE+-**	＊ Regular (4:3) size V. HEIGHT / V. CENTER adjustment should be finished.

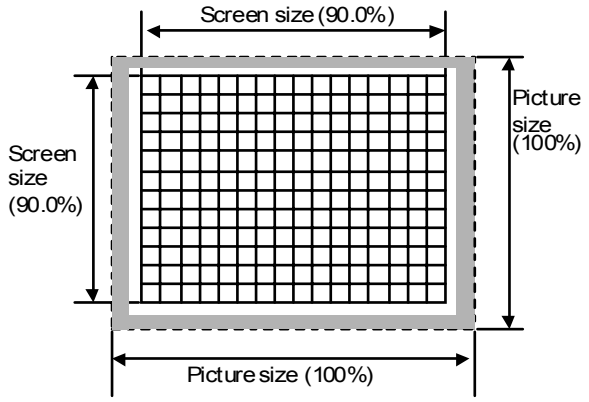
Adj. point	Item No.	Setting item	Variable range	Setting value (mm)
B	**D08**	**V. SIZE+-**	-128～127	**50mm**
	D14	**V. LIN+-**	-128～127	

1. Receive a black -and- white signal (color off).
2. Select **16:9** aspect mode with remote control unit.
3. Confirm that the width of **V. BLANKING** is **equal** to adjustment value **(B)**.
4. If the adjustment is not correct, enter the SERVICE MENU.
5. Then adjust the **D08:V. SIZE+-** and **D14:V. LIN+-** to be same to adjustment value **(B)**.
6. Press the EXIT key to twice to return the normal screen.

(NOTE)

＊ When you change the VERTICAL adjustment value of the regular mode (4:3), Review the adjustment of 16:9 mode again.

H. POSITION H. SIZE & SIDE PIN adjustment (4:3)	**Signal generator**		**D03:H.POSI. D15:H. SIZE D23:EW PARA D19:EW CR TOP D21:EW CR BMT**	＊ V. HEIGHT / V. POSITION adjustment should be finished.



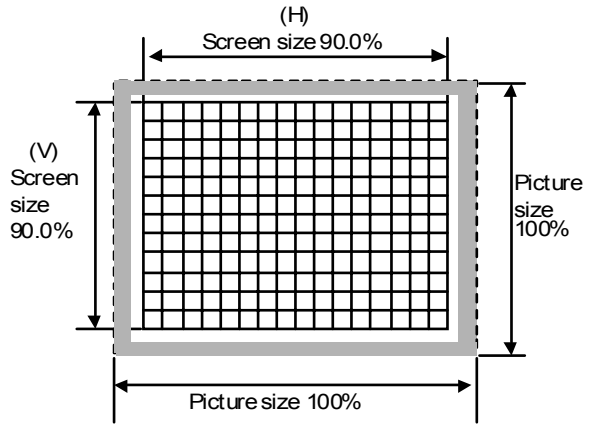
No.	Setting item	Variable range	Initial setting value
D03	**H. POSI**	0～31	**20**
D15	**H. SIZE**	0～63	**33**
D23	**EW PARA**	0～63	**36**
D19	**EW CR TOP**	0～31	**12**
D21	**EW CR BMT**	0～31	**14**

1. Receive a cross-hatch signal.
2. Enter the SERVICE MENU.
3. Select the **D03: H. POSI** from 2.DEF (D) item.
4. Adjust by **H. POSITION** to be same size at both side.
5. Then adjust the horizontal size of the visible screen at both size to 90% with the **D15:H.SIZE**.
6. And adjust the vertical line at both side to become linear line by **D23:EW PARA**.
7. Confirm the linearity of vertical line and horizontal size/
8. If it is necessary, readjust 1.～7.
9. Press the EXIT key twice to return the normal screen.

(NOTE)

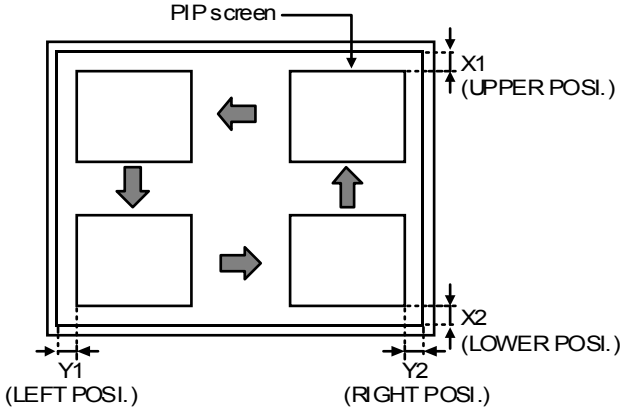
＊ If it is not straight the vertical upper and bottom corner line adjustment the upper and bottom corner pin by **D19:EW CR TOP** and **D21:EW CR BTM**.

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION H. SIZE & SIDE PIN adjustment (16:9)	**Signal generator**		**D04:H.POSI+-** **D16:H. SIZE+-** **D20:EW CR T+-** **D22:EW CR B+-** **D24:EW PARA+-**	∗ V. HEIGHT / V. POSITION adjustment should be finished. ∗ H. SIZE, H. POSI and SIDE PIN adjustment should be finished. (Regular size(4:3)). 1. Receive the cross-hatch signal. 2. Select **16:9** aspect mode with remote control unit. 3. Enter the SERVICE MENU. 4. Confirm both sides of cross-hatch to be the adjustment value **90%**. 5. If it not correct, adjust to be value **90%** at the **D16:H. SIZE +-** and **D04:H.POSI+-**. 6. Confirm the vertical 2nd line from lift and right to be straight. 7. If it is not straight, adjust to be straight at **D24:EW PARA+-**, **D20:EW CR T+-** and **D22:EW CR B+-**. (NOTE) ∗ Review the adjustment of 16:9 mode again when you change the SIDE PIN adjustment value of regular (4:3) mode.



No.	Setting item	Variable range	Setting value
D04	**H. POSI+-**	-128～+127	**00**
D16	**H. SIZE+-**	-128～+127	**00**
D20	**EW CR T+-**	-128～+127	**00**
D22	**EW CR B+-**	-128～+127	**00**
D24	**EW PARA+-**	-128～+127	**00**

PIP DISPLAY POSITION adjustment (AV-27F803/s)	**Signal generator**		**PIP11:L POSI.** **PIP12:R POSI.** **PIP13:UPR POSI.** **PIP14:LWR POSI.**	∗ Main picture's V. HEIGHT, V. POSI, H. SIZE, H. POSI. Should be finished. ∗ Set the VIDEO STATUS to STANDARD. 1. Receive a black-and-white signal (color off) 2. Enter the SERVICE MENU. 3. Select the **5:PIP(PIP)** from SERVICE MENU. 4. Set the initial setting value of the **PIP13:UPR POSI.** with the (◀/▶) key of the remote control unit. 5. Adjust the **PIP13:UPR POSI.** so that he position of the PIP screen edge of upper will be at **X1 as shown.** 6. Adjust the corresponding modes of **PIP14**, **PIP11**, **PIP12** with the same steps as 3～5 above.

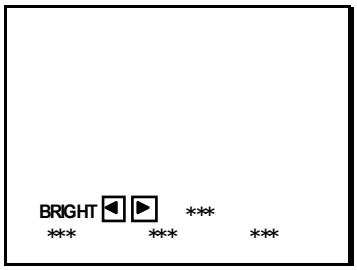


Item No.	Setting item	Variable range	setting value	Setting position	
				POSI.	(%)
PIP13	**UPR POSI**	0～127	**12**	**X1**	**80**
PIP14	**LWR POSI**	0～127	**11**	**X2**	**80**
PIP11	**L. POSI**	0～255	**22**	**Y1**	**80**
PIP12	**R. POSI**	0～255	**15**	**Y2**	**80**

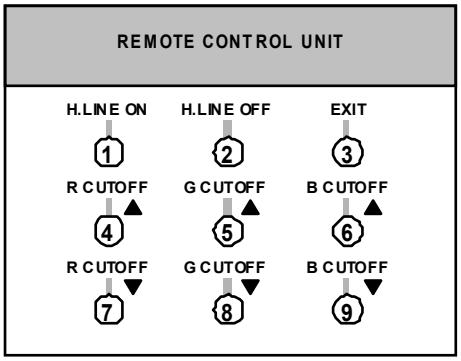
ADJUSTMENT OF VIDEO / CHROMA CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low Light) adjustment	**Signal generator**		**S01:BRIGHT** **S11:R CUTOFF** **S12:G CUTOFF** **S13:B CUTOFF** **SCREEN VR** **[in HVT]**	1. Receive the black and white signal (color off). 2. Select the **LOW LIGHT** mode from the SERVICE MENU. 3. Confirm the initial setting value of **R CUTOFF**, **G CUTOFF**, **B CUTOFF** and **BRIGHT**. 0. Display a single horizontal line by pressing the ① key of the remote control unit. 5. Turn the screen VR all the way to the left. 6. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly. 7. Adjust the two colors which did not appear until the single horizontal line that is displayed becomes **white** using the ④ to ⑨ keys of the remote control unit. 8. Turn the screen VR until the single horizontal line is displayed faintly. 9. Press the ② key to cancel the single horizontal line mode. 10. Adjust the BRIGHT level to become the black component shines white slightly. 11. Confirm that whether the color ingredient of R, G, or B is visible to the black component, which shines white slightly 12. When the color ingredient can be seen, two colors other than a visible color are adjusted, and it is made to look white. 13. Return the value of BRIGHT to initial setting value. ●The ③ EXIT key is the cancel key for the WHITE BALANCE.

[LOW LIGHT]



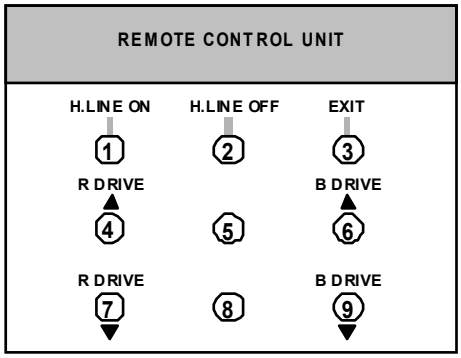
[H.LINE SCREEN]



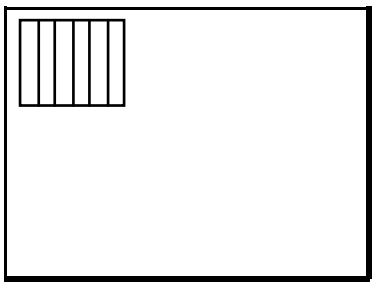
No.	Setting item	Variable range	Initial setting value
S11	R CUT OFF	0～255	30
S12	G CUT OFF	0～255	30
S13	B CUT OFF	0～255	30
S01	BRIGHT	0～127	64

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (High Light) adjustment</td><td>Signal generator</td><td></td><td>S14:R DRIVE
S15:B DRIVE</td><td>1. Receive the black-and-white signal (color off).
2. Select the HIGH LIGHT mode in the SERVICE MENU.
3. Set the initial setting value of R DRIVE and B DRIVE with the ④, ⑥, ⑦and ⑨ keys of the remote control unit.
4. Adjust the screen until it becomes white using the ④, ⑥, ⑦ and ⑨ keys of the remote control unit.
●The ③ EXIT key is the cancel key for the WHITE BALANCE.

[WHITE SCREEN]

<table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S14</td><td>R DRIVE</td><td>0～127</td><td>64</td></tr><tr><td>S15</td><td>B DRIVE</td><td>0～127</td><td>64</td></tr></table></td></tr>
<tr><td>PIP WHITE BALANCE (High Light) adjustment
(AV-27F803 ONLY)</td><td>Signal generator</td><td></td><td>PIP08:R DRIVE
PIP10:B DRIVE</td><td>1. Receive the black-and-white signal (color off).
2. Select the PIP08:R DRIVE, PIP10:B DRIVE, of the 5.PIP(PIP) SERVICE MENU.
3. Set the corresponding initial setting values with the FUNCTION (◀/▶) key of the remote control unit.
4. Adjust the PIP08:R DRIVE, PIP10:B DRIVE until the screen becomes white.

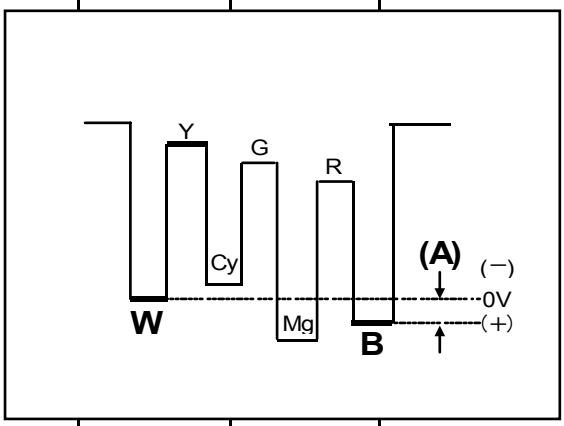
 

<table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>PIP08</td><td>R DRIVE</td><td>0～255</td><td>63</td></tr><tr><td>PIP10</td><td>B DRIVE</td><td>0～255</td><td>65</td></tr></table></td></tr>
</table>

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>SUB BRIGHT adjustment</td><td></td><td></td><td>S01:BRIGHT</td><td>1. Receive the broadcast and set the STANDARD mode.
2. Enter the SERVICE MENU.
3. Select S01:BRIGHT of the V/C(S) mode.
4. Set the initial setting value of the S01. BRIGHT with the FUNCTION ◀/▶ key.
5. If the brightness is not the best with the initial setting value, make fine adjustment of the S01. BRIGHT until you get the optimum brightness.</td></tr>
<tr><td colspan="4"><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S01</td><td>BRIGHT</td><td>0～127</td><td>64</td></tr></table></td></tr>
<tr><td>SUB CONTRAST adjustment</td><td></td><td></td><td>S02:PICTURE</td><td>1. Receive the broadcast and set the STANDARD mode.
2. Enter the SERVICE MENU.
3. Select S02:PICTURE of the V/C(S) mode.
4. Set the initial setting value of the S02:PICTURE with the FUNCTION ◀/▶ key.
5. If the contrast is not the best with the initial setting value, make fine adjustment of the S02:PICTURE until you get the optimum contrast.</td></tr>
<tr><td colspan="4"><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S02</td><td>PICTURE</td><td>0～127</td><td>60</td></tr></table></td></tr>
<tr><td>SUB COLOR adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>S03:COLOR</td><td>[Method of adjustment without measuring instrument]
1. Receive the broadcast.
2. Enter the SERVICE MENU.
3. Select S03:COLOR of the V/C(S) mode.
4. Set the initial setting value of the S03:COLOR with the FUNCTION ◀/▶ key.
5. If the color is not the best with the Initial setting value, make fine adjustment of the S03:COLOR until you get the optimum color.</td></tr>
<tr><td colspan="4"><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S03</td><td>COLOR</td><td>0～127</td><td>50</td></tr></table></td></tr>
<tr><td></td><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-B
TP-E(⏚)
[CRT SOCKET PWB]</td><td>S03:COLOR</td><td>[Method of adjustment using measuring instrument]
1. Input the full field color bar signal (75% white).
2. Enter the SERVICE MENU.
3. Set the RFAFC to OFF.
4. Select S03:COLOR of the V/C(S) mode.
5. Set the initial setting value of the S03:COLOR with the FUNCTION ◀/▶ key.
6. Connect the oscilloscope between TP-B and TP-E.
7. Adjust COLOR and bring the value of (A) in the illustration to the voltage shown in the table bellow.
8. Reset the RFAFC setting position from OFF to ON.</td></tr>
<tr><td colspan="4"> 
</td><td><table><tr><th>W-B / Models</th><th>[A]Voltage</th></tr><tr><td>AV-27F703/S
AV-27F713/S
AV-27F803/S</td><td>+13V</td></tr></table></td></tr>
</table>

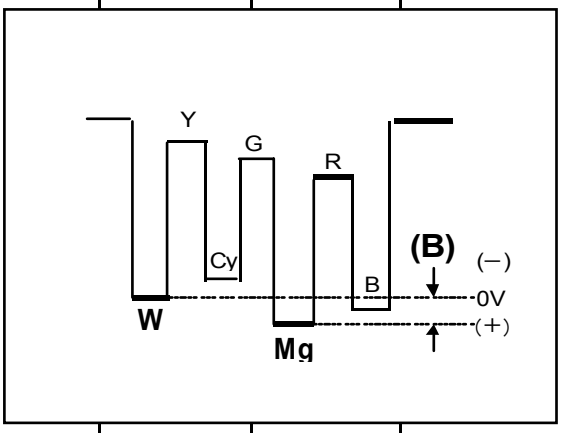
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td rowspan="2">SUB TINT adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>S04:TINT</td><td>[Method of adjustment without measuring instrument]
1. Receive the broadcast.
2. Enter the SERVICE MENU.
3. Select S04:TINT of the V/C(S) mode.
4. Set the initial setting value of the S04:TINT with the FUNCTION ◀/▶ key.
5. If the tint is not the best with the initial setting value, make fine adjustment of the S04:TINT until you get the optimum tint.

<table>
<tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr>
<tr><td>S04</td><td>TINT</td><td>0～127</td><td>68</td></tr>
</table>
</td></tr>
<tr><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-B
TP-E(⏚)
[CRT SOCKET PWB]</td><td>S04:TINT</td><td>[Method of adjustment using measuring instrument]
1. Input the full field color bar signal (75% white).
2. Enter the SERVICE MENU.
3. Set the RFAFC to OFF.
4. Select S04:TINT of the V/C(S) mode.
5. Set the initial setting value of the S04:TINT with the FUNCTION ◀/▶ key.
6. Connect the oscilloscope between TP-B and TP-E.
7. Adjust TINT and bring the value of (B) in the illustration to the voltage shown in the table bellow.
8. Reset the RFAFC setting position from OFF to ON.



<table>
<tr><th>W-Mg / Models</th><th>[B]Voltage</th></tr>
<tr><td>AV-27F703/S
AV-27F713/S
AV-27F803/S</td><td>+26V</td></tr>
</table>
</td></tr>
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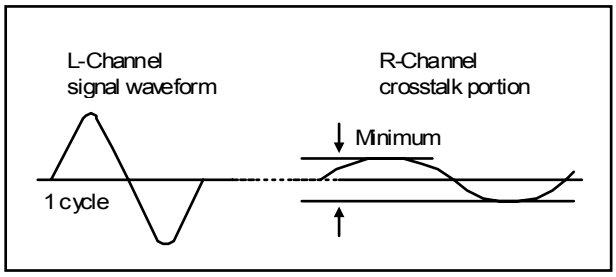
ADJUSTMENT OF MTS CIRCUIT

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>MTS INPUT LEVEL Adjustment</td><td>Sophometer</td><td>AUDIO OUT R pin</td><td>A01:IN LEVEL</td><td>1. Receive the cross-hatch signal (cross-hatch / 400Hz)
2. Enter the SERVICE MENU.
3. Select the A01:IN LEVEL of the 3:SOUND(A) MODE.
4. Verify that the A01:IN LEVEL is set at its initial setting value.
5. Connect the sophometer to AUDIO OUT R pin.
6. Adjust the MTS input level to 500mV(rms) by A01:IN LEVEL with remote control unit.
7. Press the EXIT key to return to the SERVICE MENU screen.

<table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>A01</td><td>IN LEVEL</td><td>0～15</td><td>010</td></tr></table></td></tr>
<tr><td>MTS SEPARATION adjustment</td><td>TV audio multiplex signal generator

Oscilloscope</td><td>R OUT
L OUT
[AUDIO OUT]</td><td>A02:LOW SEP.
A03:HI SEP.</td><td>1. Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal.
2. Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal.
3. Enter the SERVICE MENU.
4. Select the A02:LOW SEP. of the 3:SOUND(A) mode.
5. Set the initial setting value of the A02:LOW SEP. with the FUNCTION (◀/▶) key.
6. Adjust the A02:LOW SEP. so that the stroke element of the 300Hz signal will become minimum.
7. Change the connection of the oscilloscope to L OUT pin of the AUDIO OUT, and enlarge the voltage axis.
8. Change the signal to 3kHz, and similarly adjust the A03:HI SEP.
9. Press the EXIT key to return to the SERVICE MENU screen.

<table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>A02</td><td>LOW SEP.</td><td>0～63</td><td>032</td></tr><tr><td>A03</td><td>HI SEP.</td><td>0～63</td><td>032</td></tr></table></td></tr>
</table>

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

(1) Turn the power switch to on.

(2) As shown in Fig. 1, set the resistor between S1 connector 2 and 3 .

(3) Make sure that the screen picture disappears.

(4) Temporarily unplug the power plug.

(5) Remove the resistor replaced S1 connector 2 and 3 .

(6) Again plug the power plug, make sure that the normal picture is displayed on the screen.

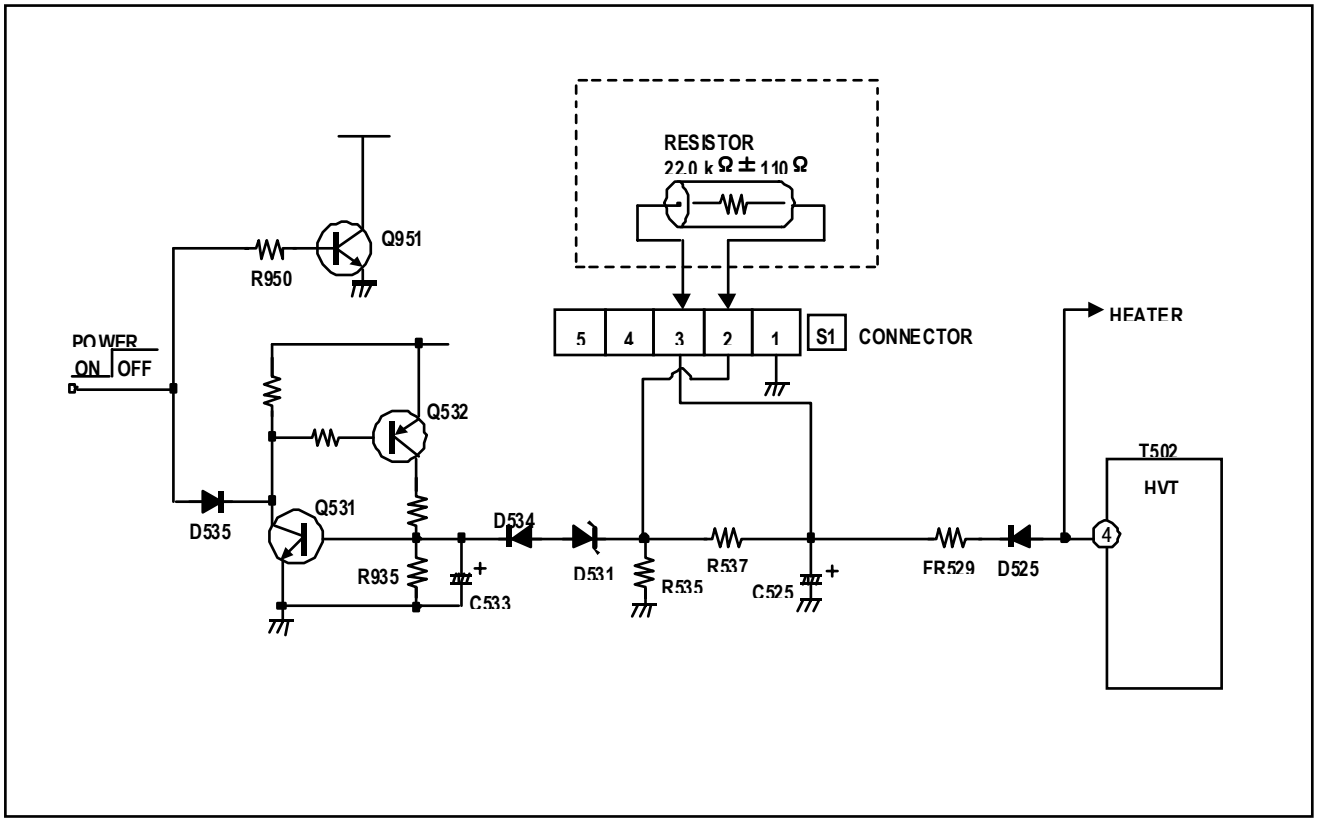


Fig. 1

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

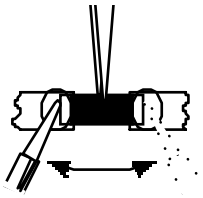
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

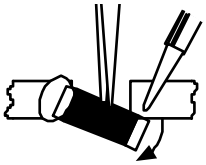
1. How to remove Chip parts

◆ **Resistors, capacitors, etc**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

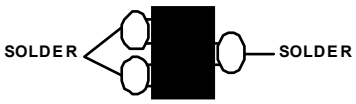


(2) Shift with tweezers and remove the chip part.

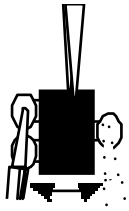


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

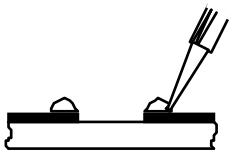


Note : After removing the part, remove remaining solder from the pattern.

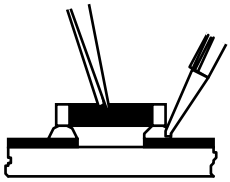
2. How to install Chip parts

◆ **Resistors, capacitors, etc**

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

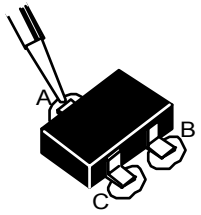


◆ **Transistors, diodes, variable resistors, etc**

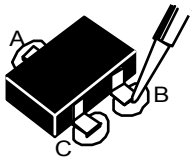
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



JVC

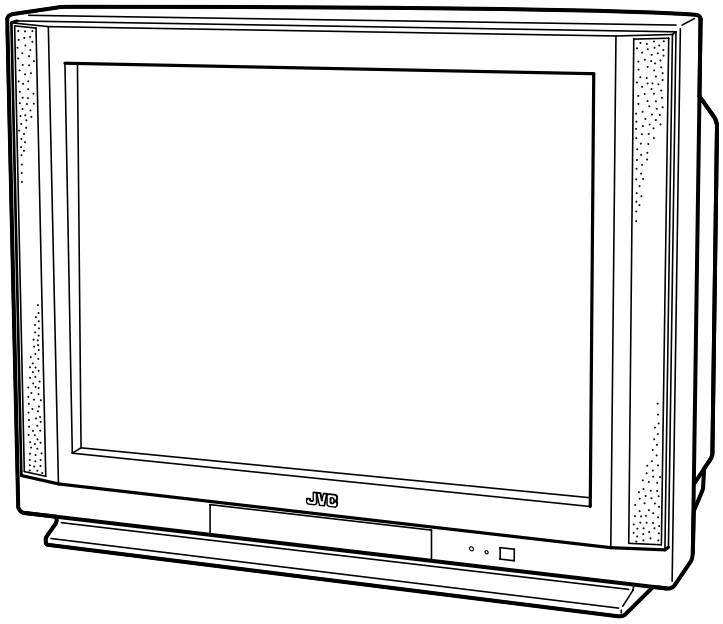
SCHEMATIC DIAGRAMS

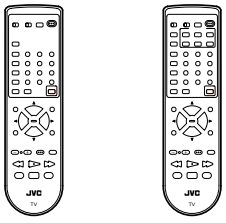
COLOR TELEVISION

AV-27F703/S
AV-27F713/S
AV-27F803/S

BASIC CHASSIS
GJ

CD-ROM No.SML200207





[RM-C326G]
RM-C326

AV-27F703
AV-27F713

[RM-C325G]

AV-27F803

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- BLOCK DIAGRAM ---------- 2-3
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- CHANNEL CHART ---------- 2-29

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No.52005
Jun. 2002

AV-27F703/S,AV-27F713/S,AV-27F803/S
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal	
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped	
(3)Internal resistance of tester	:DC 20kΩ/V	
(4)Oscilloscope sweeping time	:H	⇒ 20μS/div
	:V	⇒ 5mS/div
	:Others	⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values	

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[K Ω]
M	:[M Ω]

● Rated allowable power

No indication	:1/ 16 [W]
Others	:As specified

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

∗ Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

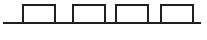
No unit	:[μH]
Others	:As specified

(4)Power Supply

:B1

:B2 (12V)

:9V


:5V

∗ Respective voltage values are indicated

(5)Test point

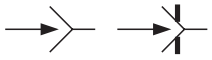
:Test point

:Only test point display

(6)Connecting method

:Connector

:Wrapping or soldering


:Receptacle

(7)Ground symbol

:LIVE side ground

:ISOLATED(NEUTRAL) side ground

:EARTH ground

:DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◇ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

Jun. 2002 No. 52005

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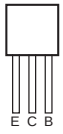
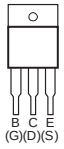
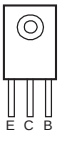
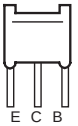
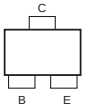
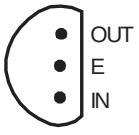
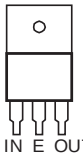
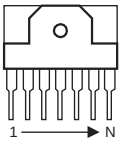
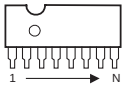
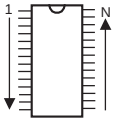
CHANNEL CHART (CA) ---------- **2-30**

SEMICONDUCTOR SHAPES

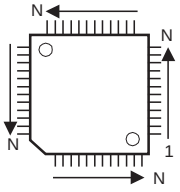
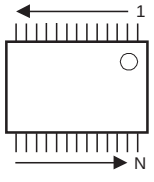
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

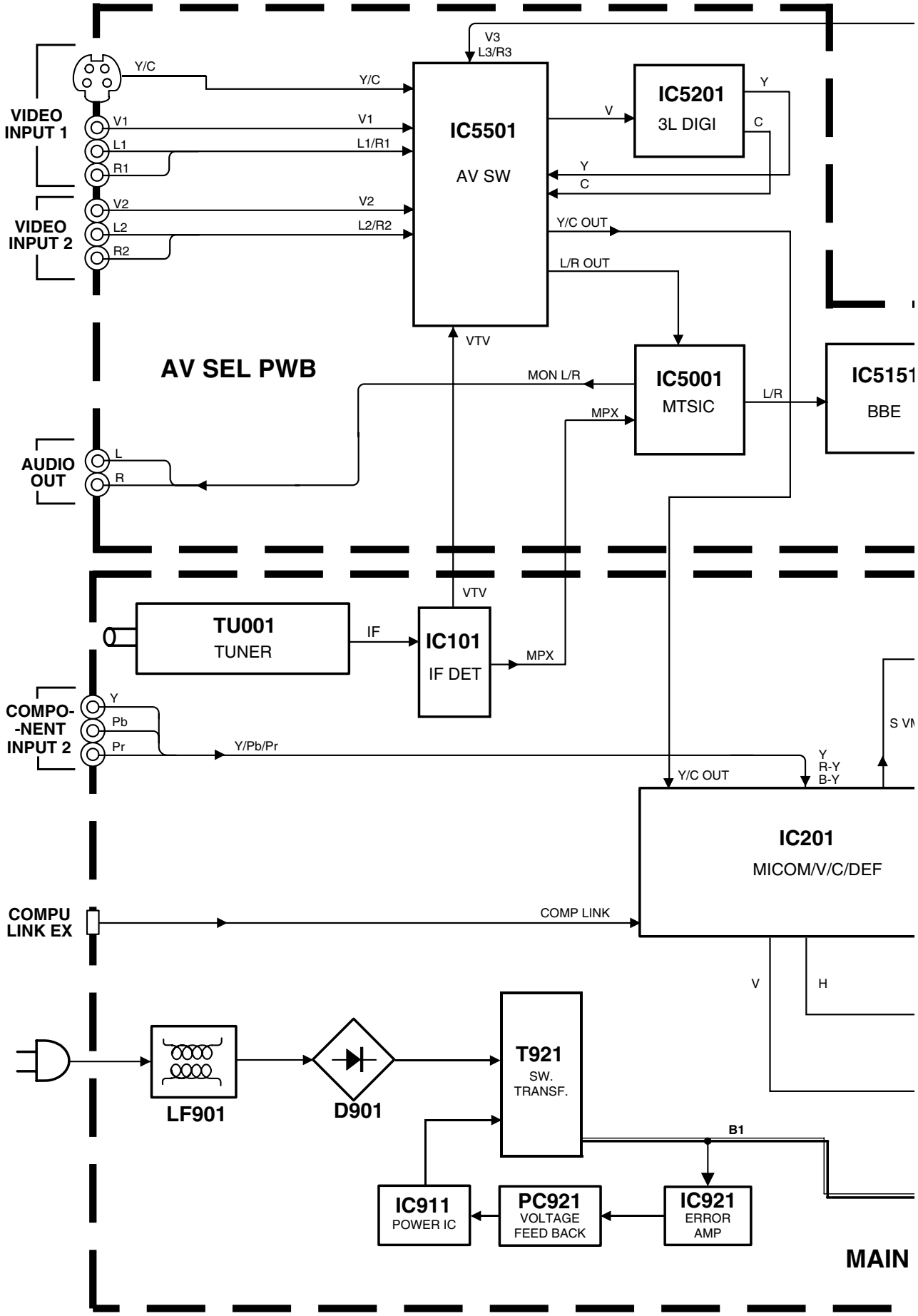
IC

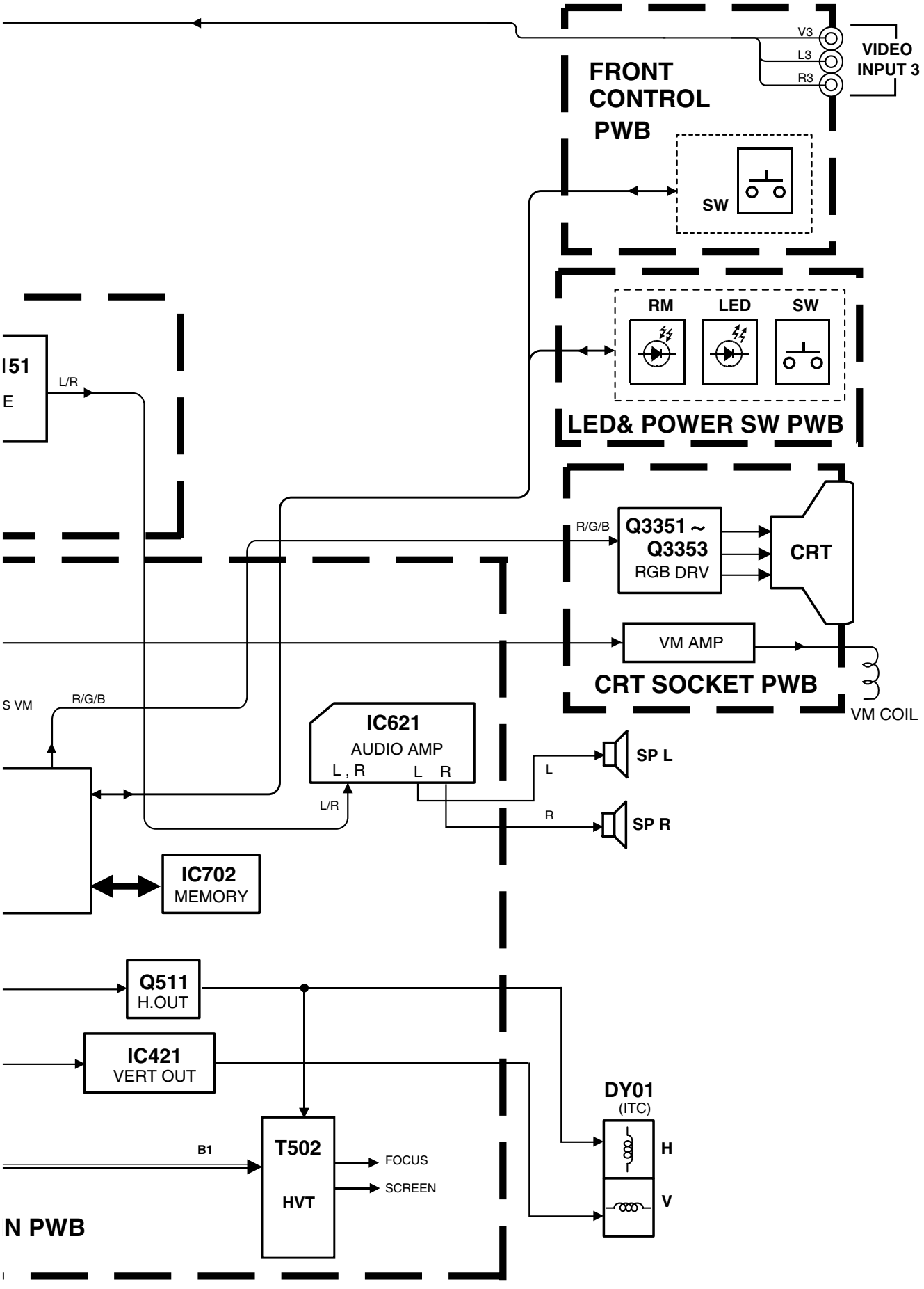
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

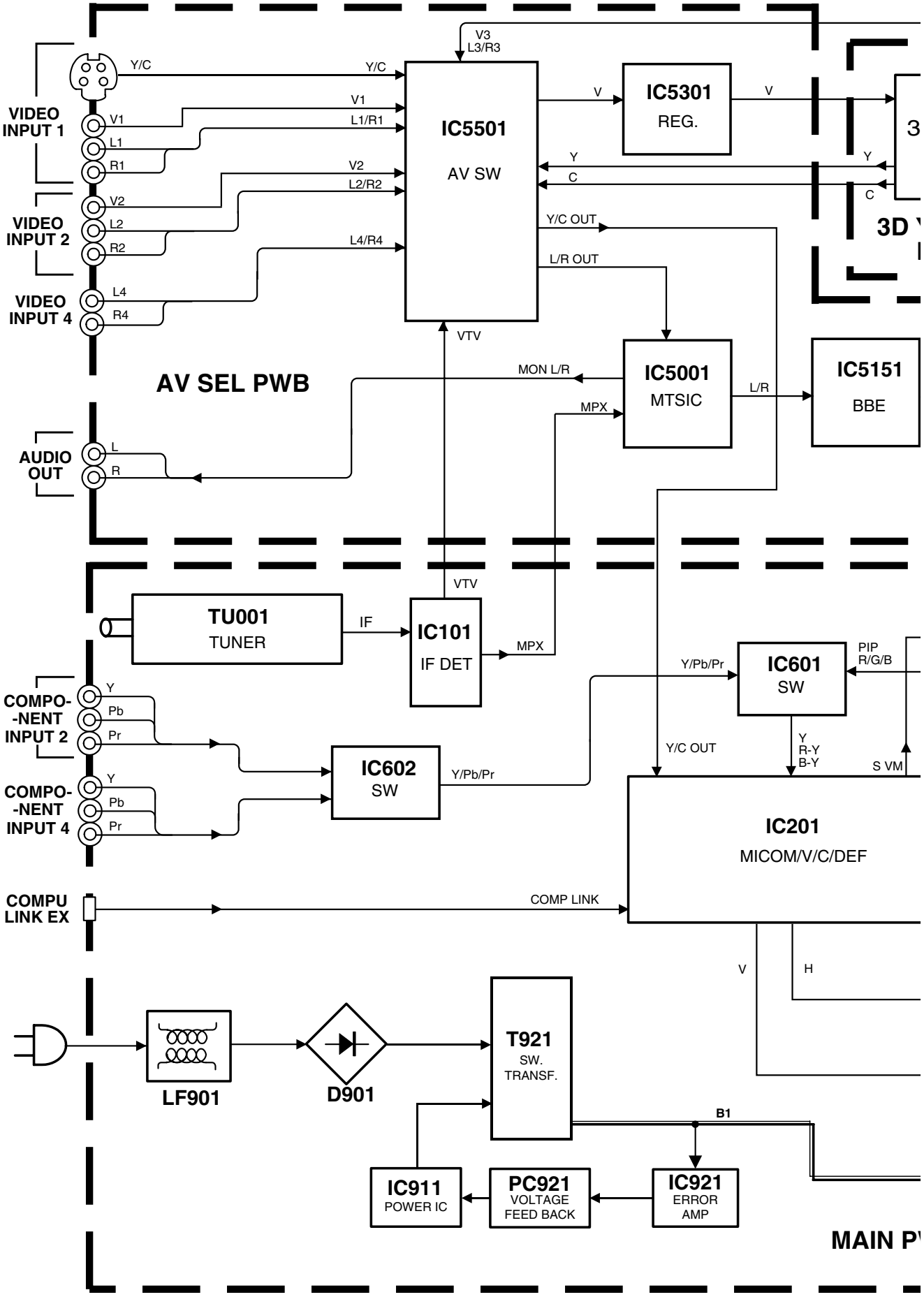
TOP VIEW		
		

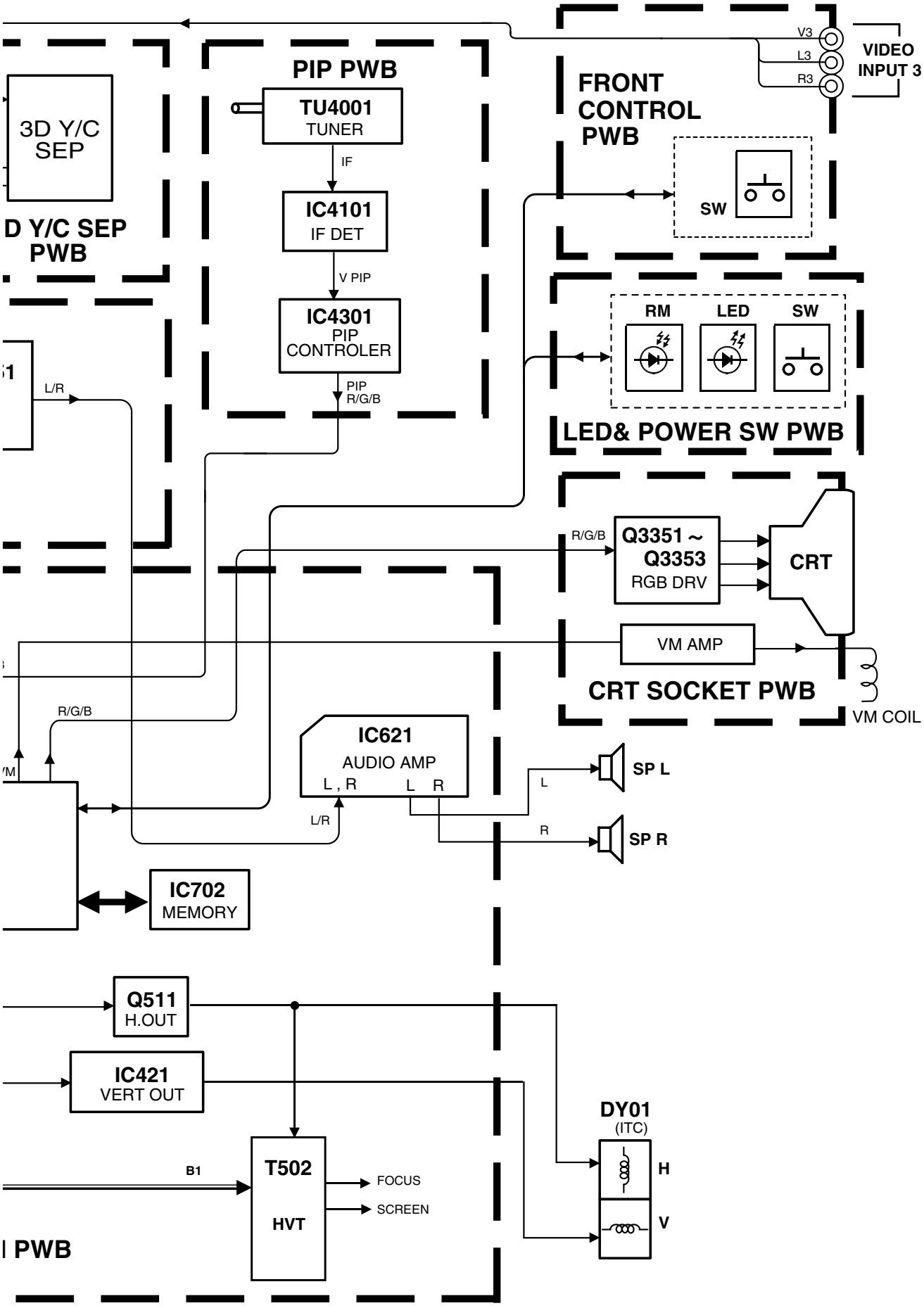
BLOCK DIAGRAM [AV-27F703,AV-27F713]



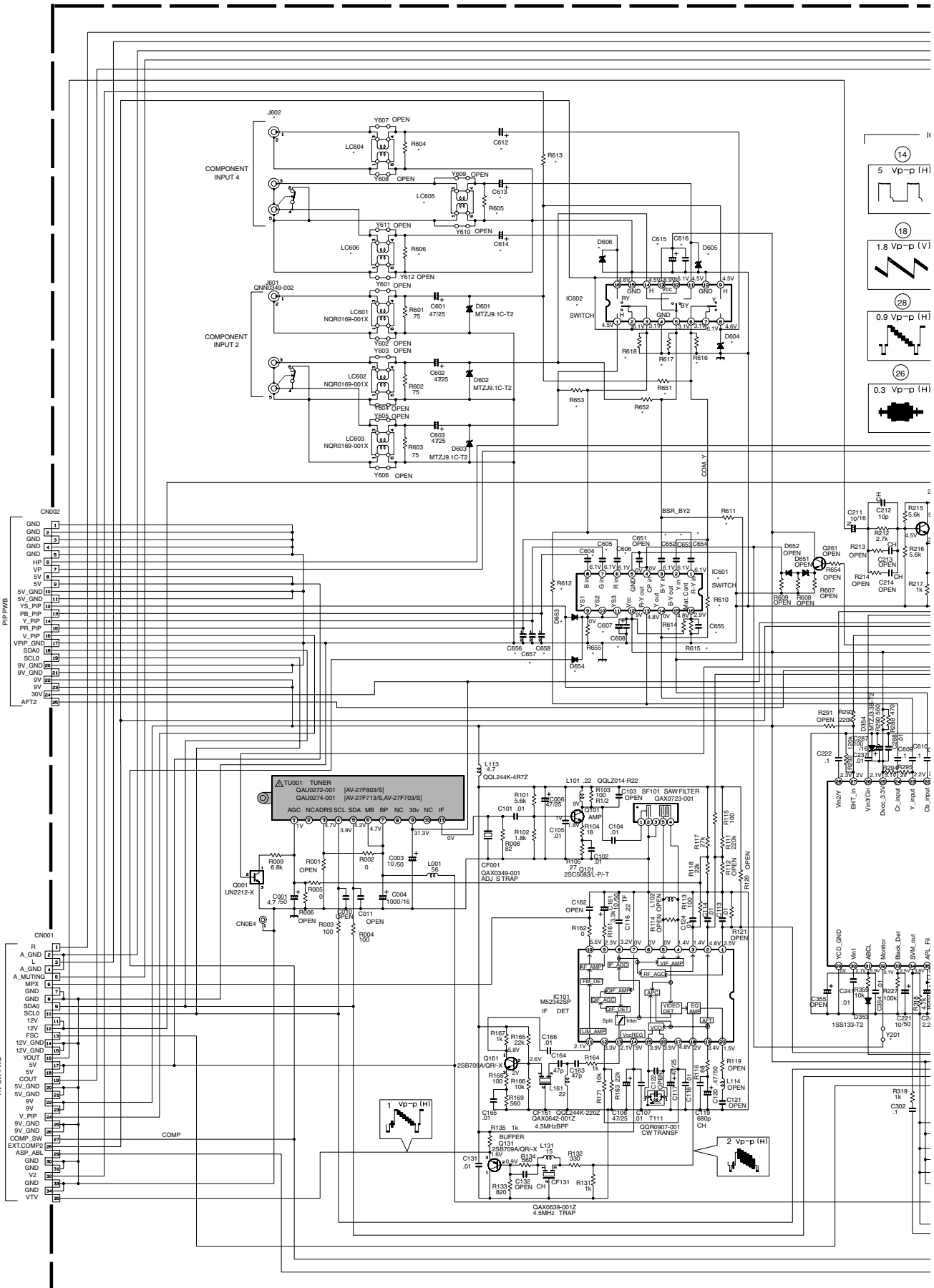

V3
L3
R3
VIDEO INPUT 3
FRONT CONTROL PWB
SW
RM
LED
SW
LED& POWER SW PWB
151
E
L/R
R/G/B
Q3351 ~ Q3353
RGB DRV
CRT
VM AMP
CRT SOCKET PWB
VM COIL
S VM
R/G/B
IC621
AUDIO AMP
L , R
L R
L
R
L/R
SP L
SP R
IC702
MEMORY
Q511
H.OUT
IC421
VERT OUT
DY01
(ITC)
H
V
B1
T502
HVT
FOCUS
SCREEN
N PWB

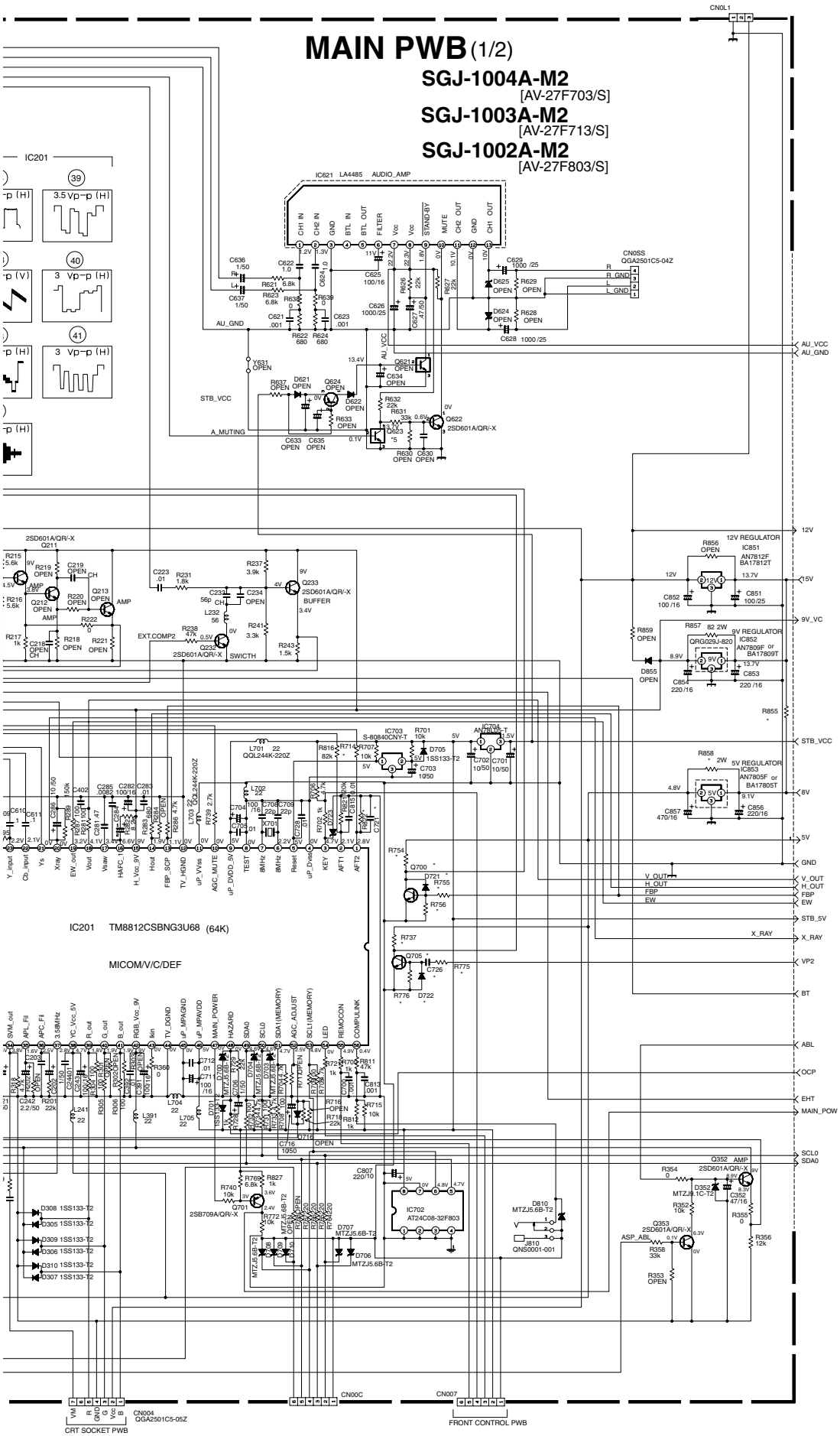
BLOCK DIAGRAM [AV-27F803]




PIP PWB
TU4001
TUNER
IF
IC4101
IF DET
V PIP
IC4301
PIP
CONTROLER
PIP
R/G/B
3D Y/C
SEP
D Y/C SEP
PWB
L/R
FRONT
CONTROL
PWB
SW
V3
L3
R3
VIDEO
INPUT 3
RM
LED
SW
LED& POWER SW PWB
R/G/B
Q3351 ~
Q3353
RGB DRV
CRT
VM AMP
CRT SOCKET PWB
VM COIL
R/G/B
IC621
AUDIO AMP
L , R
L R
L
R
L/R
SP L
SP R
IC702
MEMORY
Q511
H.OUT
IC421
VERT OUT
DY01
(ITC)
H
V
B1
T502
HVT
FOCUS
SCREEN
PWB

CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAMS* [1/2]

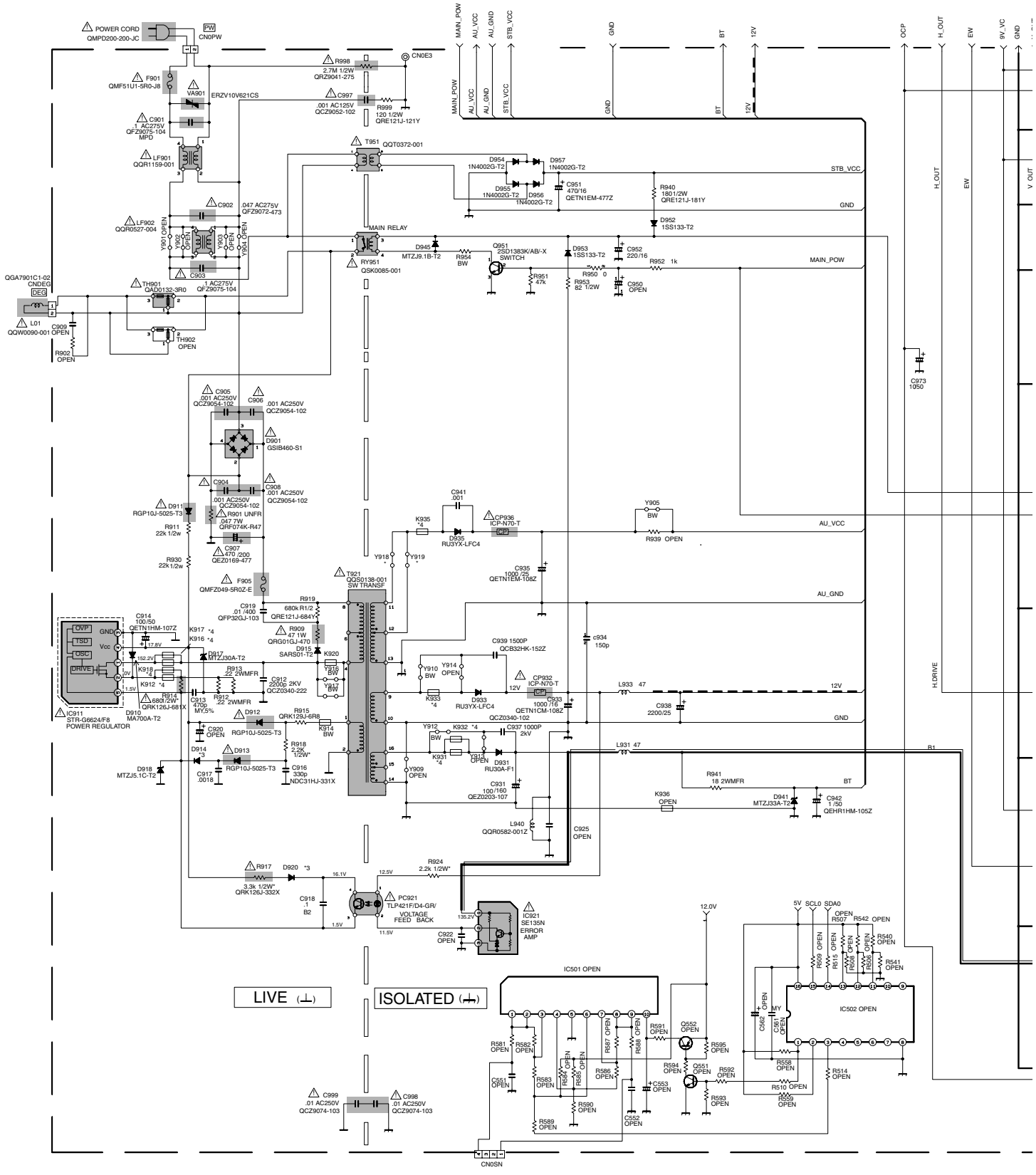


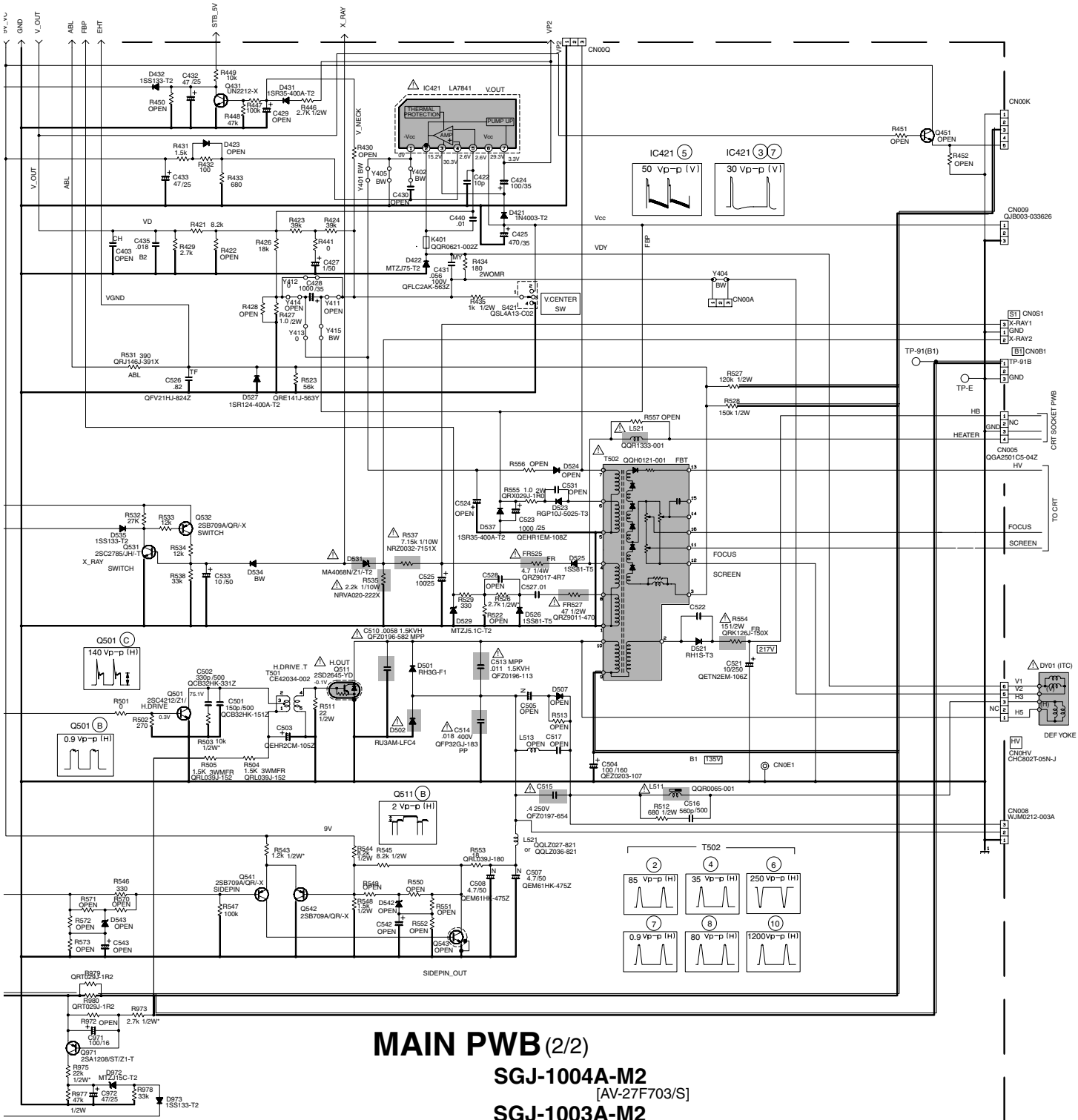


* DIFFERENCE LIST

	SGJ-1002A-M2	SGJ-1003A-M2 SGJ-1004A-M2
Q700	2SD601A/QR/-X	OPEN
Q705	2SD601A/QR/-X	OPEN
D721	1SS133-T2	OPEN
D722	1SS133-T2	OPEN
R754	4.7k	OPEN
R755	15k	OPEN
R756	10k	OPEN
R737	4.7k	OPEN
R775	47k	OPEN
R776	10k	OPEN
C726	560p	OPEN
R714	82k	OPEN
R822	120k	0
C721	0.01	OPEN
Y201	0	OPEN
IC601	TA1287F-X	OPEN
D653	1SS133-T2	OPEN
D654	1SS133-T2	OPEN
R610	OPEN	0
R611	OPEN	0
R612	OPEN	OPEN
R614	6.8k	OPEN
R615	3.3k	OPEN
R655	15k	OPEN
C604	0.1	OPEN
C605	0.1	OPEN
C606	0.1	OPEN
C607	470/10	OPEN
C608	0.01	OPEN
C652	0.1	OPEN
C653	0.1	OPEN
C654	0.1	OPEN
C655	0.01	OPEN
C656	15p	OPEN
C657	15p	OPEN
C658	15p	OPEN
IC602	M52055FP-X	OPEN
D604	MTZJ9.1C-T2	OPEN
D605	MTZJ9.1C-T2	OPEN
D606	MTZJ9.1C-T2	OPEN
R604	75	OPEN
R605	75	OPEN
R606	75	OPEN
R613	OPEN	OPEN
R616	3.3K	OPEN
R617	3.3K	OPEN
R618	3.3K	OPEN
R651	OPEN	0
R652	OPEN	0
R653	OPEN	0
C612	47/25	OPEN
C613	47/25	OPEN
C614	47/25	OPEN
C615	470/16	OPEN
C616	0.01	OPEN
L604	NQR0169-001X	OPEN
L605	NQR0169-001X	OPEN
L606	NQR0169-001X	OPEN
J602	QNN0349-002	OPEN
R855	6.8 3W	6.8 3W
R858	18 2W	OPEN

MAIN PWB CIRCUIT DIAGRAM [2/2]





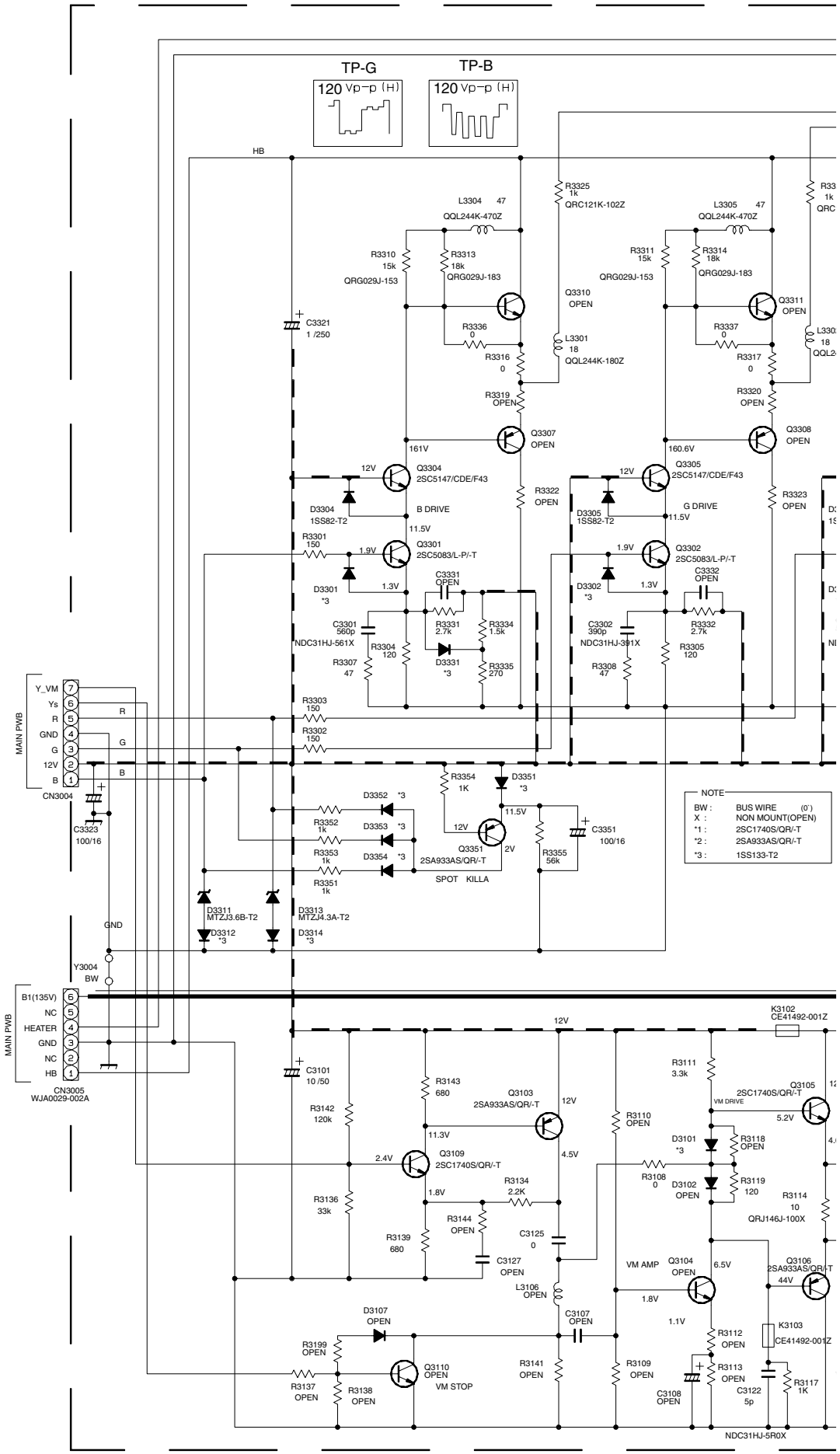
MAIN PWB (2/2)

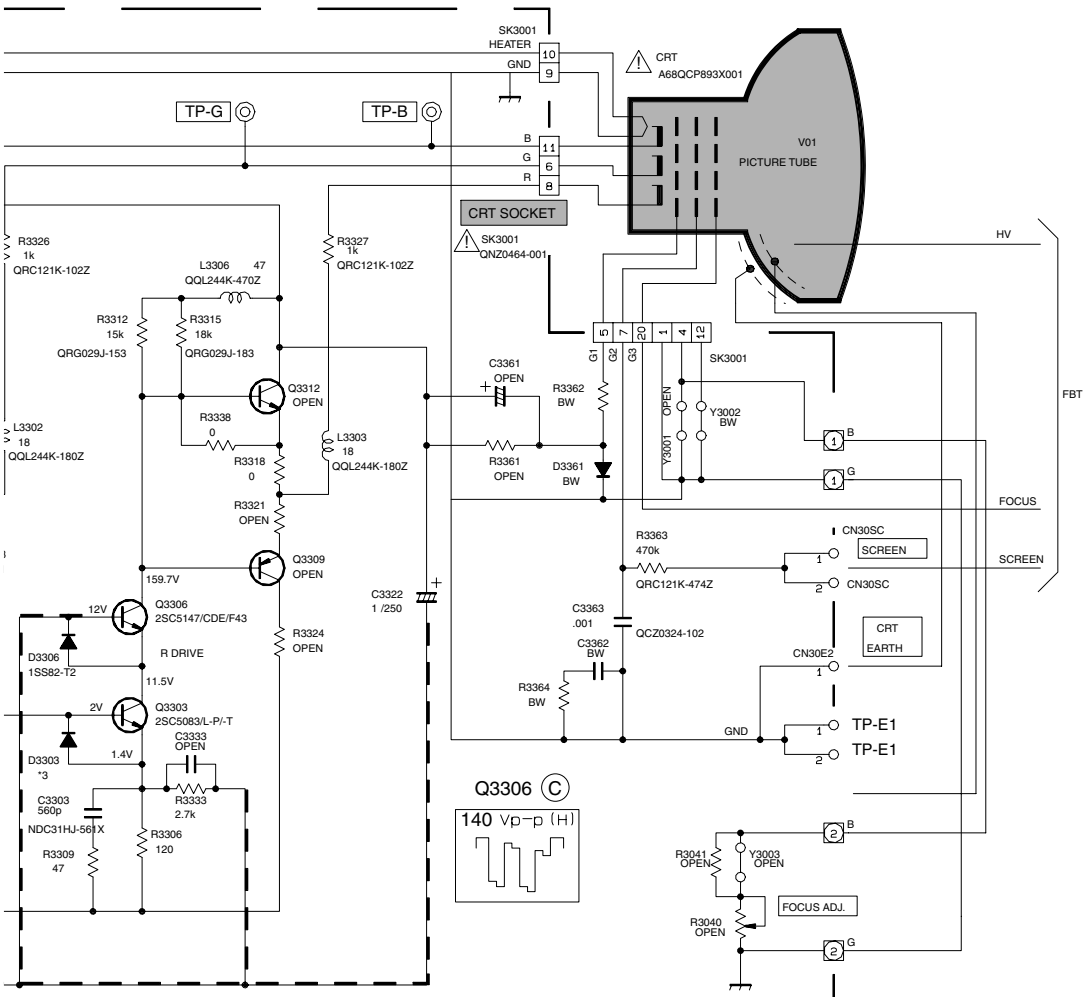
SGJ-1004A-M2
[AV-27F703/S]

SGJ-1003A-M2
[AV-27F713/S]

SGJ-1002A-M2
[AV-27F803/S]

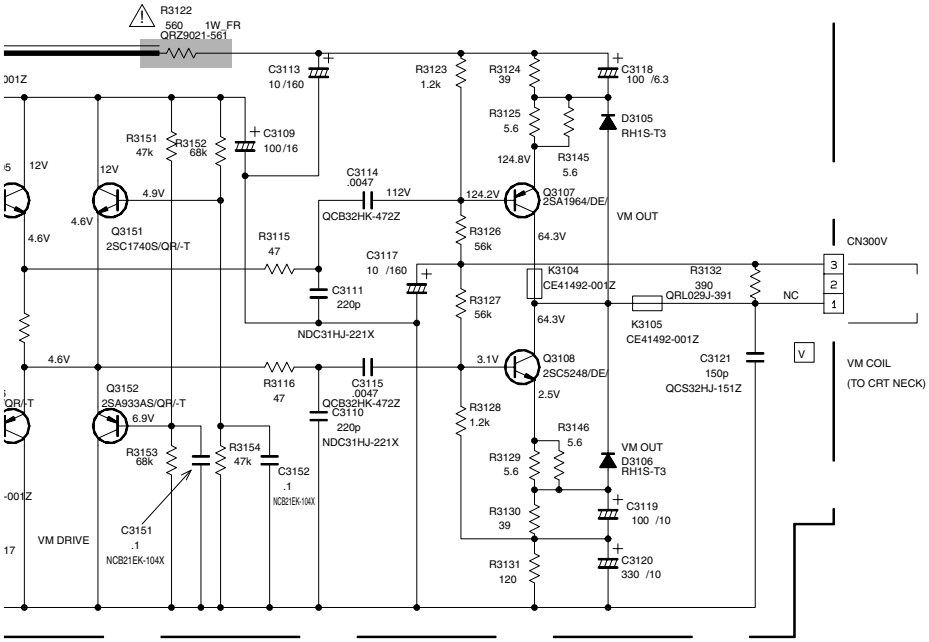
CRT SOCKET PWB CIRCUIT DIAGRAM



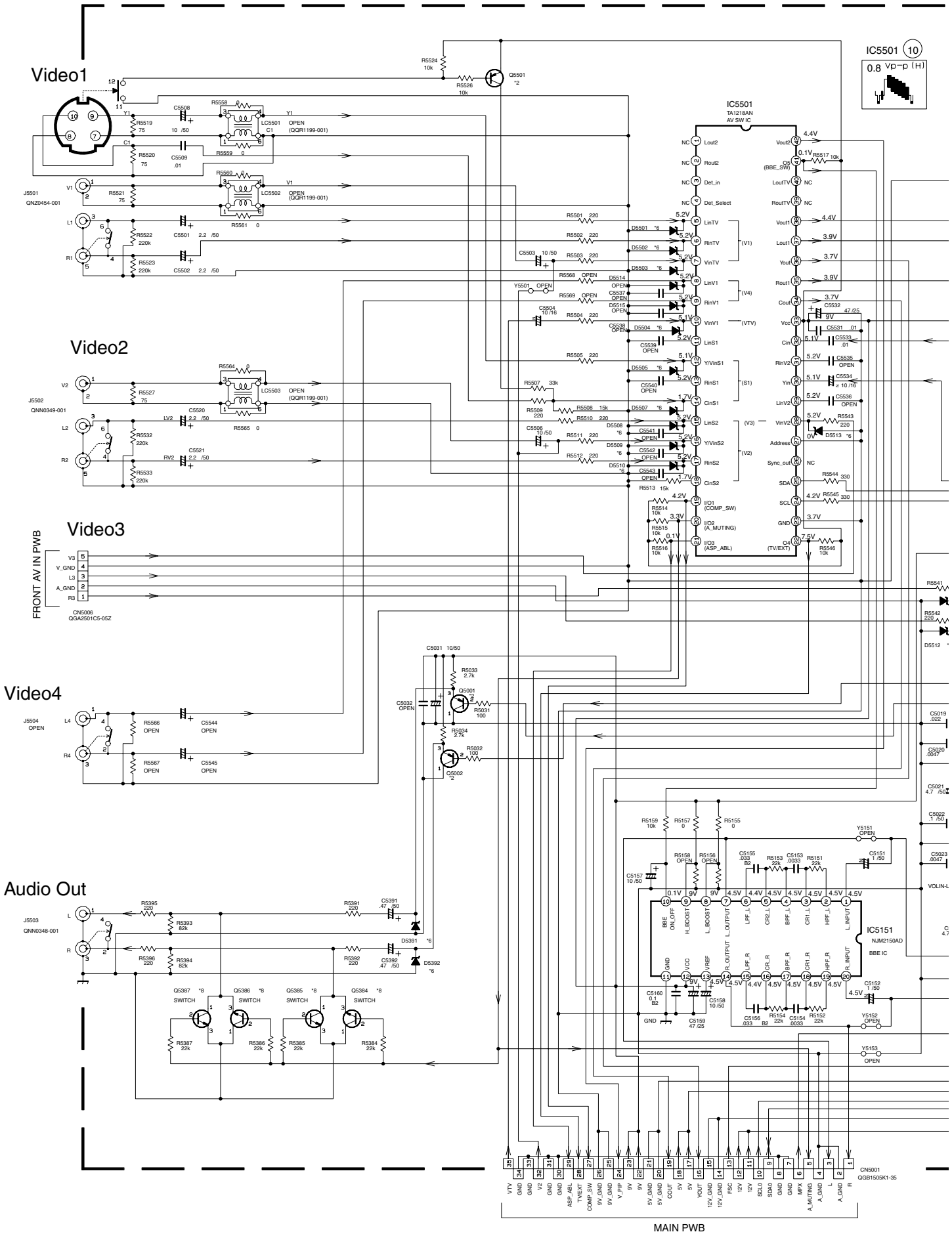


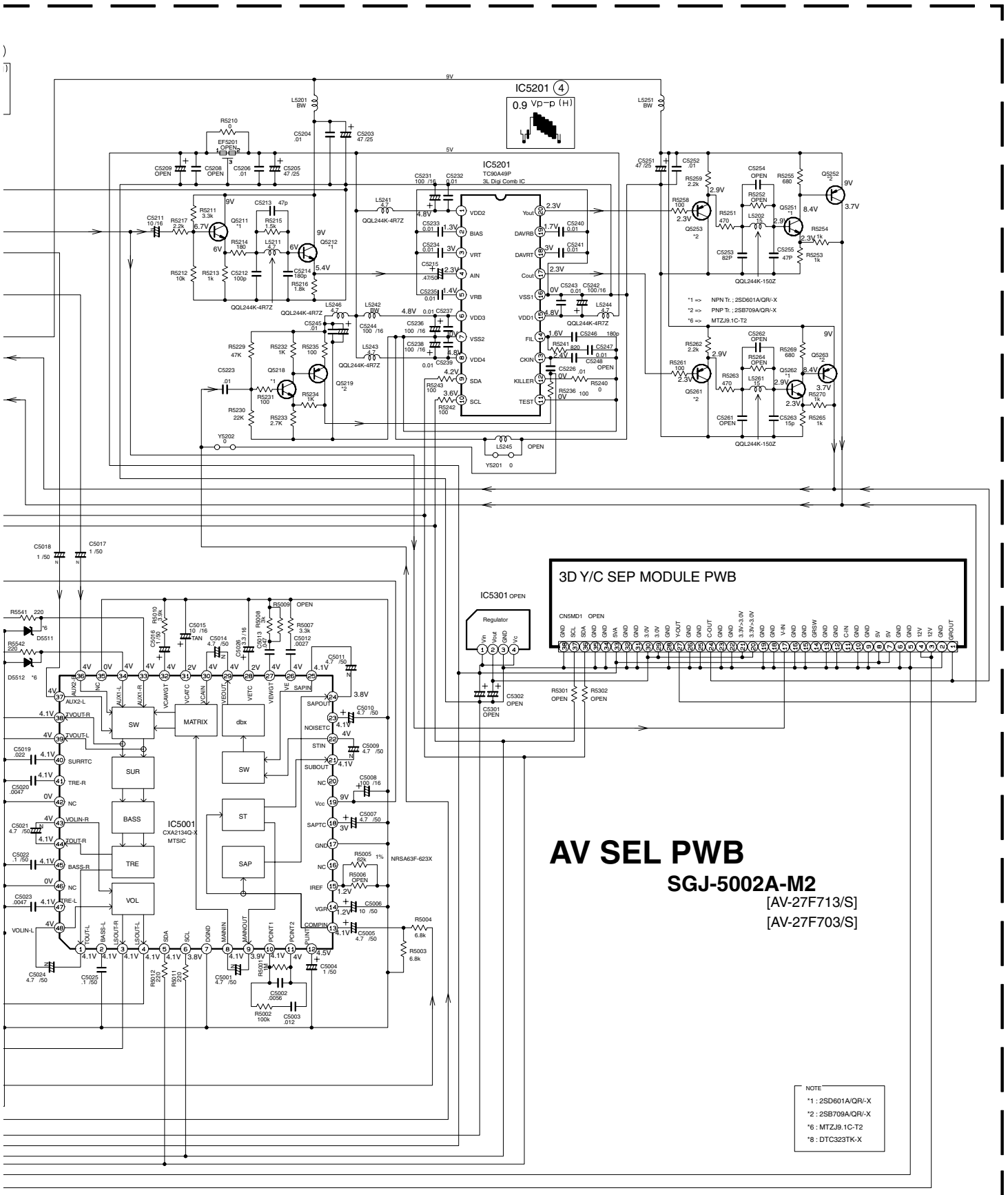
CRT SOCKET PWB

SGJ-3002A-M2

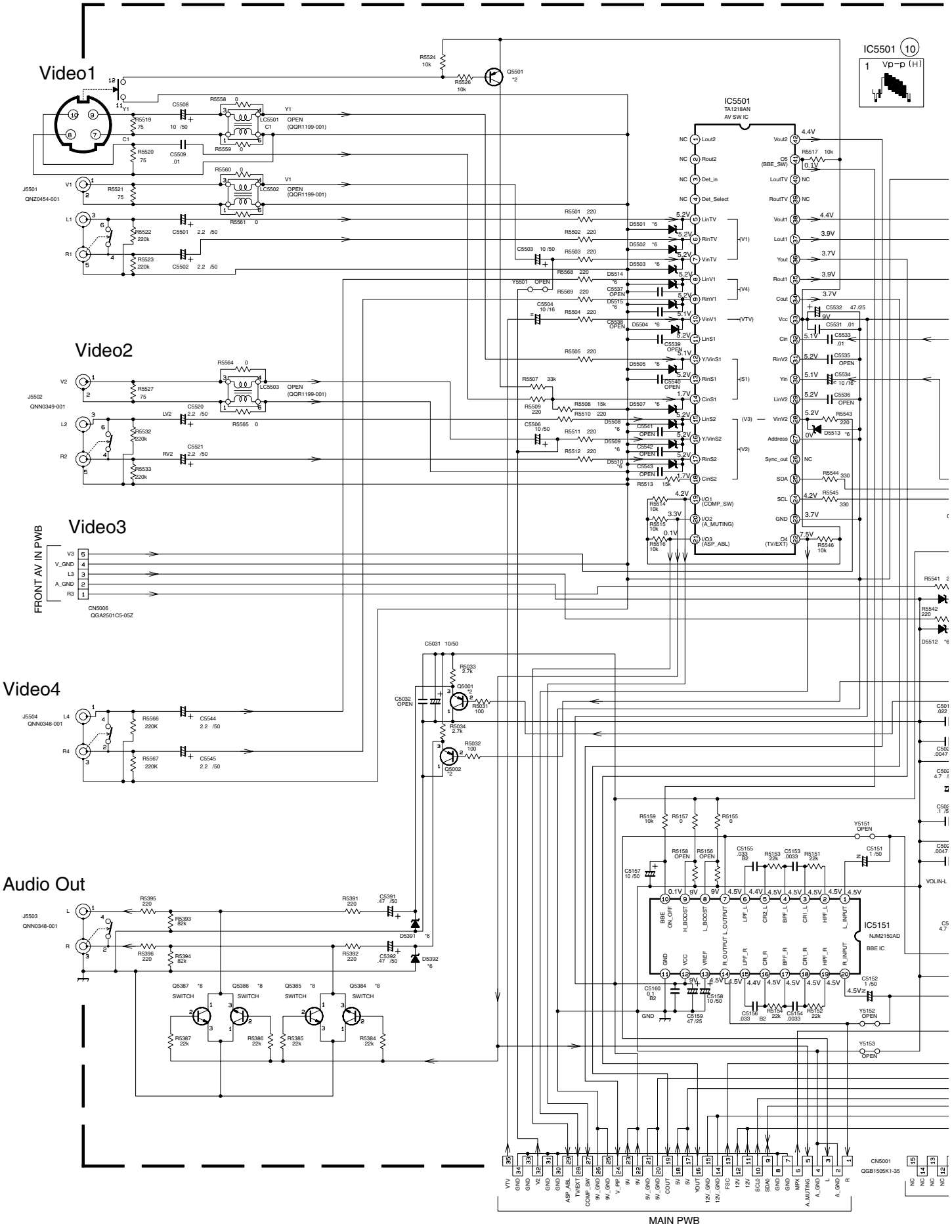


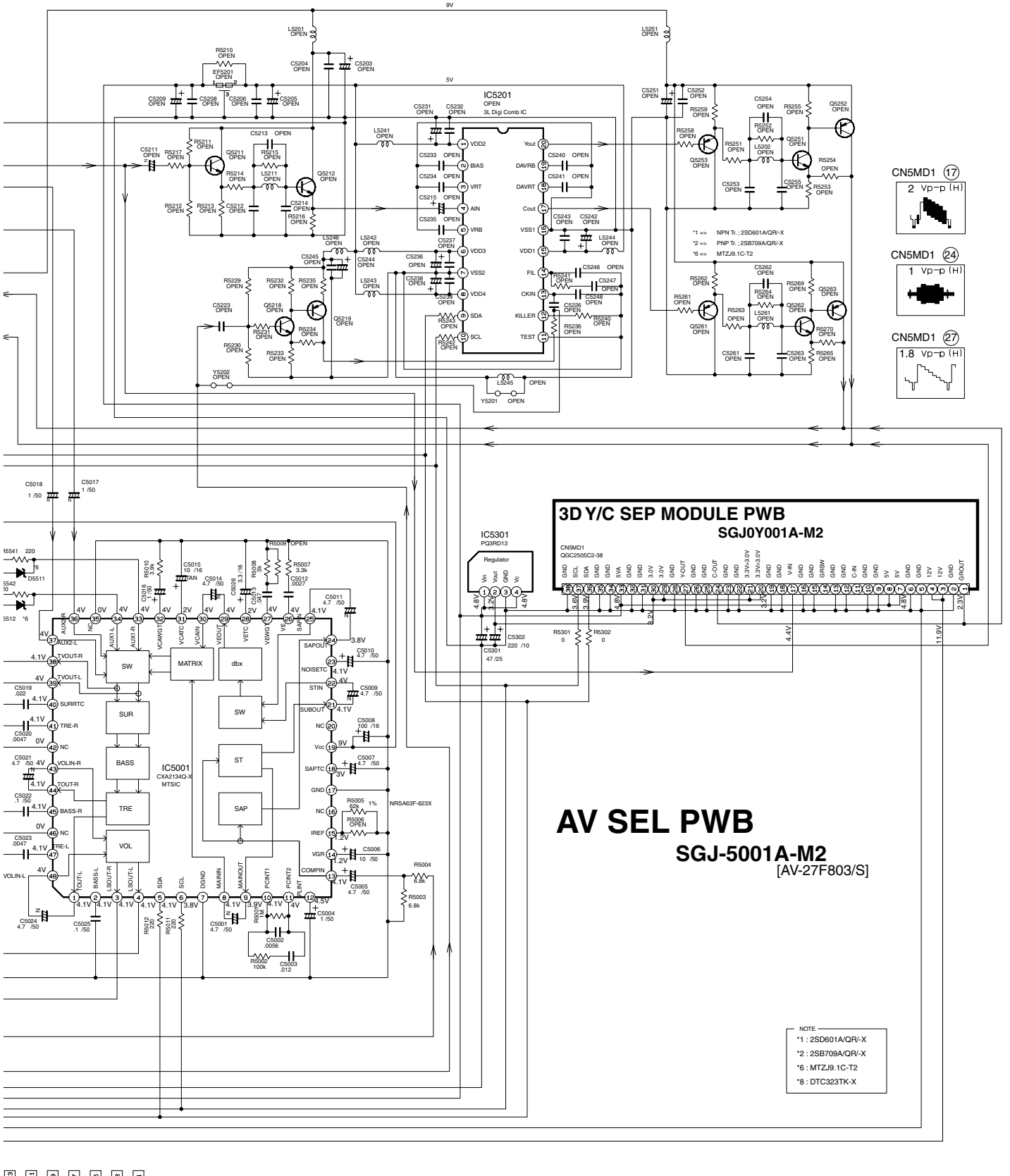
AV SEL PWB CIRCUIT DIAGRAM [AV-27F703,AV-27F713]



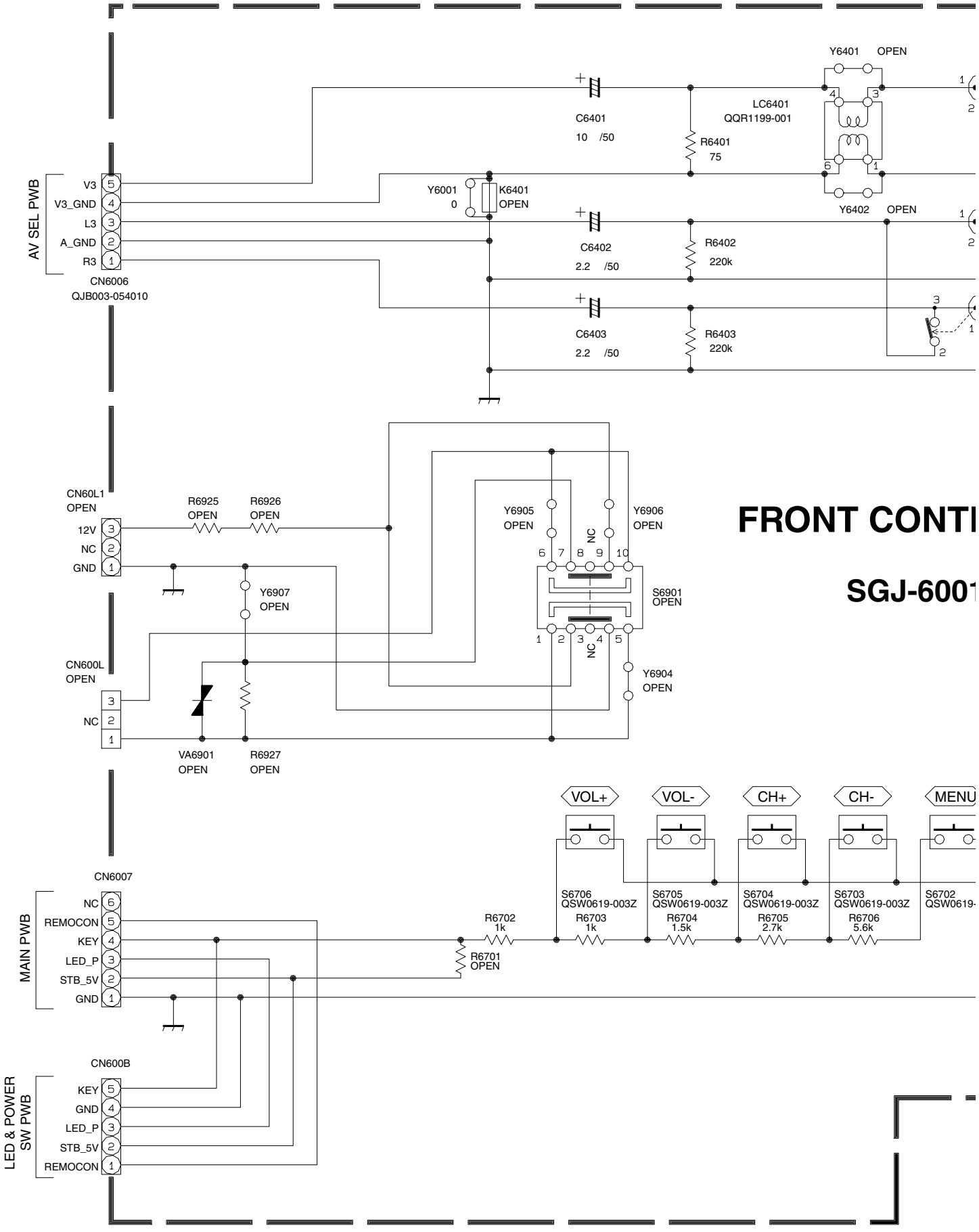

IC5201 4
0.9 Vp-p (H)
IC5201
TC90A49P
3L Digi Comb IC
IC5001
CXA2134Q-X
MTSIC
IC5301 OPEN
Regulator
3D Y/C SEP MODULE PWB
CN5MD1 OPEN
AV SEL PWB
SGJ-5002A-M2
[AV-27F713/S]
[AV-27F703/S]
*1 => NPN Tr. ; 2SD601A/QR/-X
*2 => PNP Tr. ; 2SB709A/QR/-X
*6 => MTZJ9.1C-T2
NOTE
*1 : 2SD601A/QR/-X
*2 : 2SB709A/QR/-X
*6 : MTZJ9.1C-T2
*8 : DTC323TK-X

AV SEL PWB CIRCUIT DIAGRAM [AV-27F803]

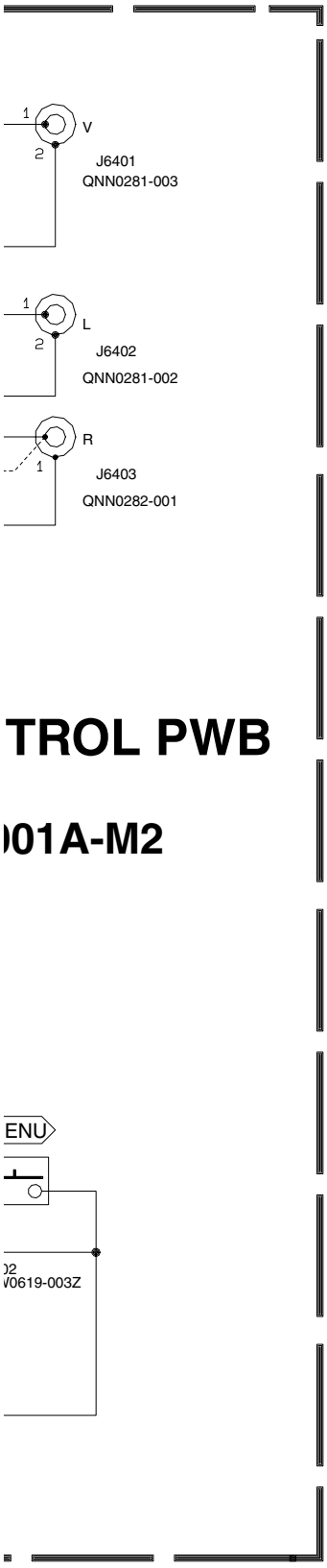


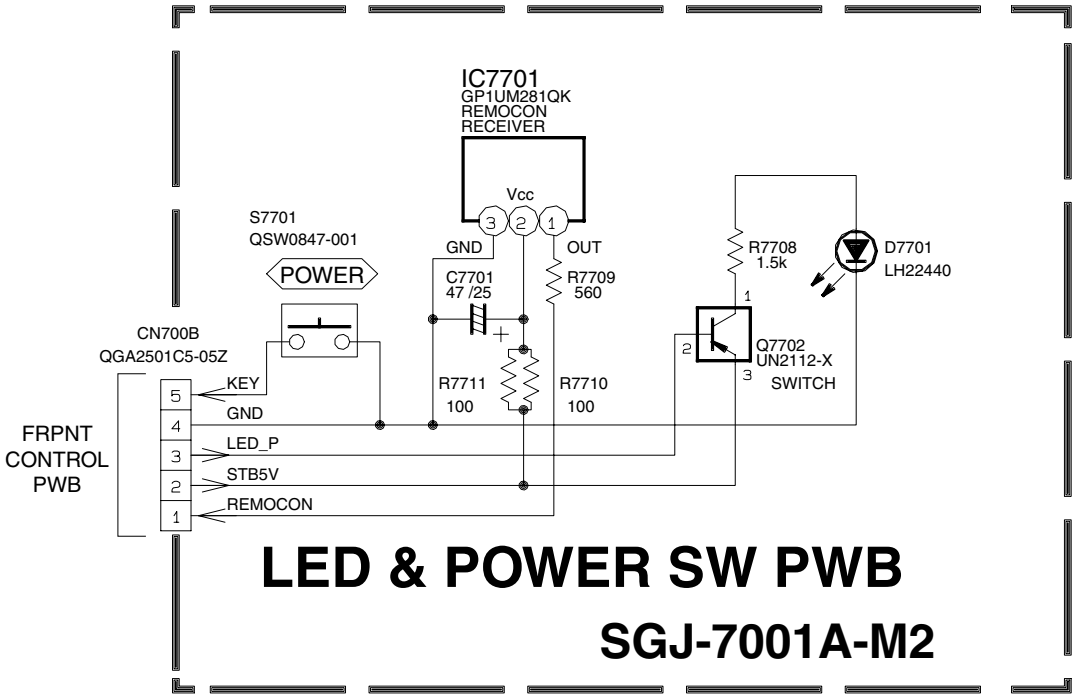

AV SEL PWB
SGJ-5001A-M2
[AV-27F803/S]
3D Y/C SEP MODULE PWB
SGJ0Y001A-M2
IC5201
OPEN
3L Digi Comb IC
IC5001
CXA2134Q-X
MTSIC
IC5301
PQ3RD13
Regulator
CN5MD1 17
2 Vp-p (H)
CN5MD1 24
1 Vp-p (H)
CN5MD1 27
1.8 Vp-p (H)
*1 => NPN Tr. ; 2SD601A/QR/-X
*2 => PNP Tr. ; 2SB709A/QR/-X
*6 => MTZJ9.1C-T2
NOTE
*1 : 2SD601A/QR/-X
*2 : 2SB709A/QR/-X
*6 : MTZJ9.1C-T2
*8 : DTC323TK-X
CN5003
QGB1505K1-15
MAIN PWB

FRONT CONTROL PWB CIRCUIT DIAGRAM

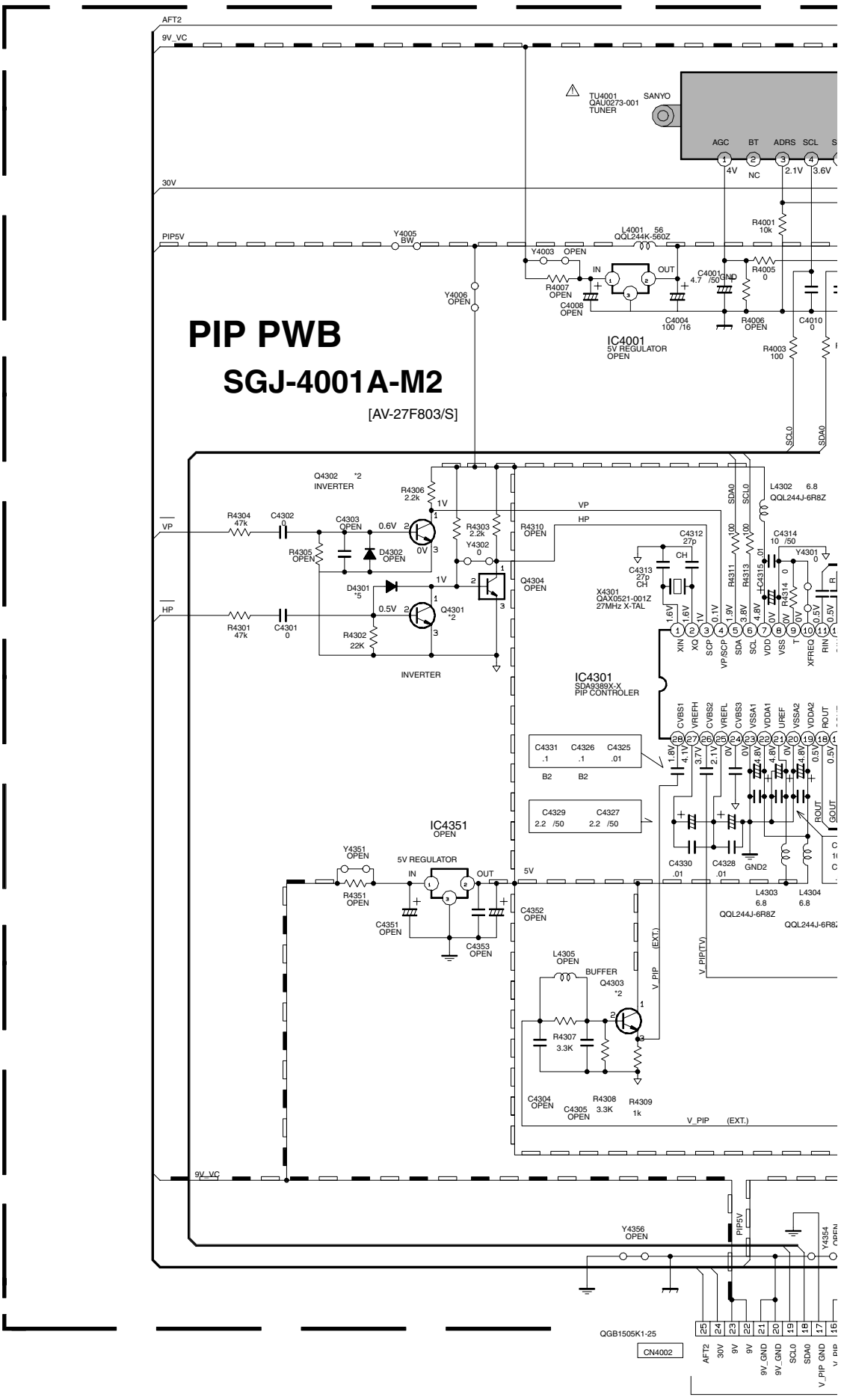


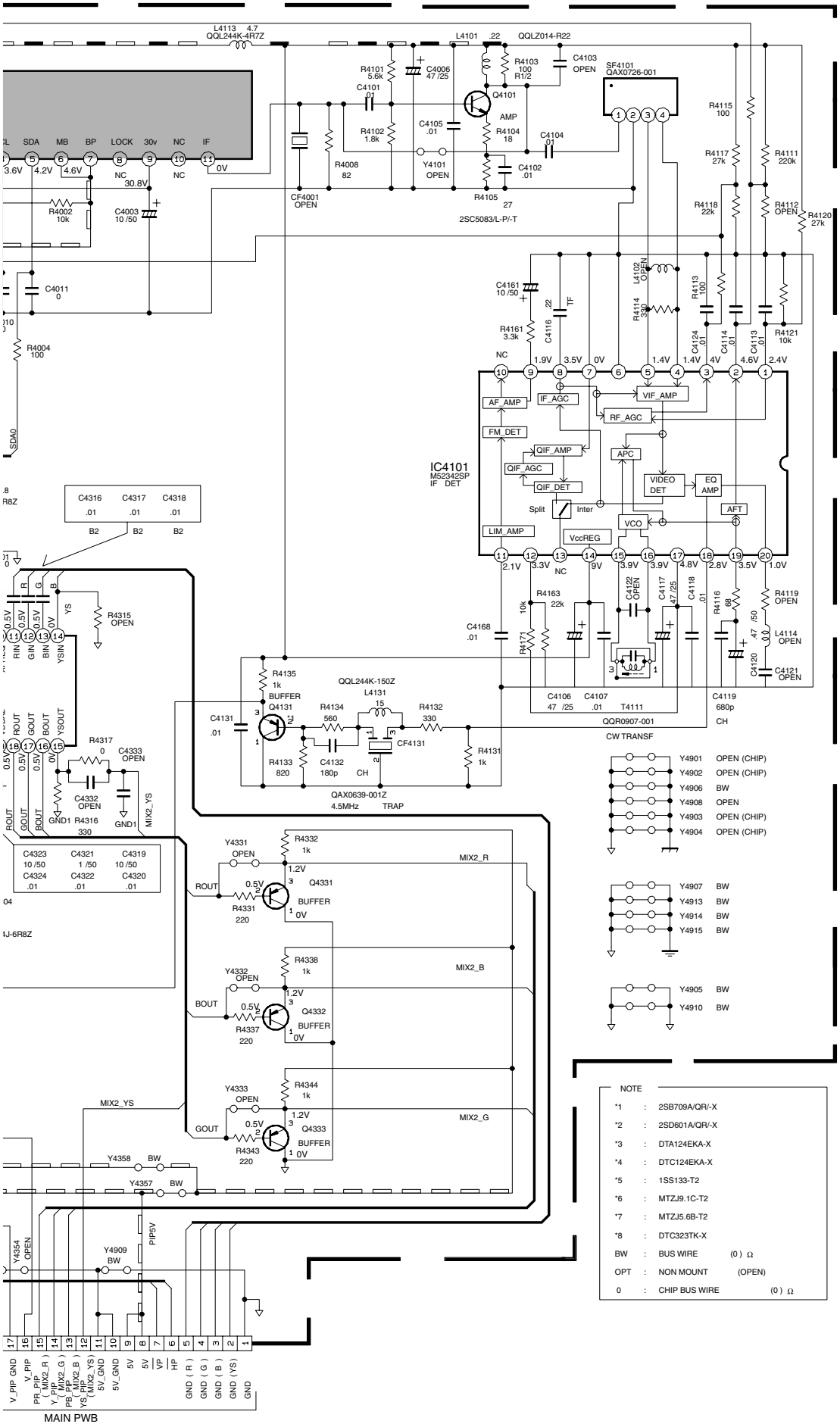
LED & POWER SW PWB CIRCUIT DIAGRAM





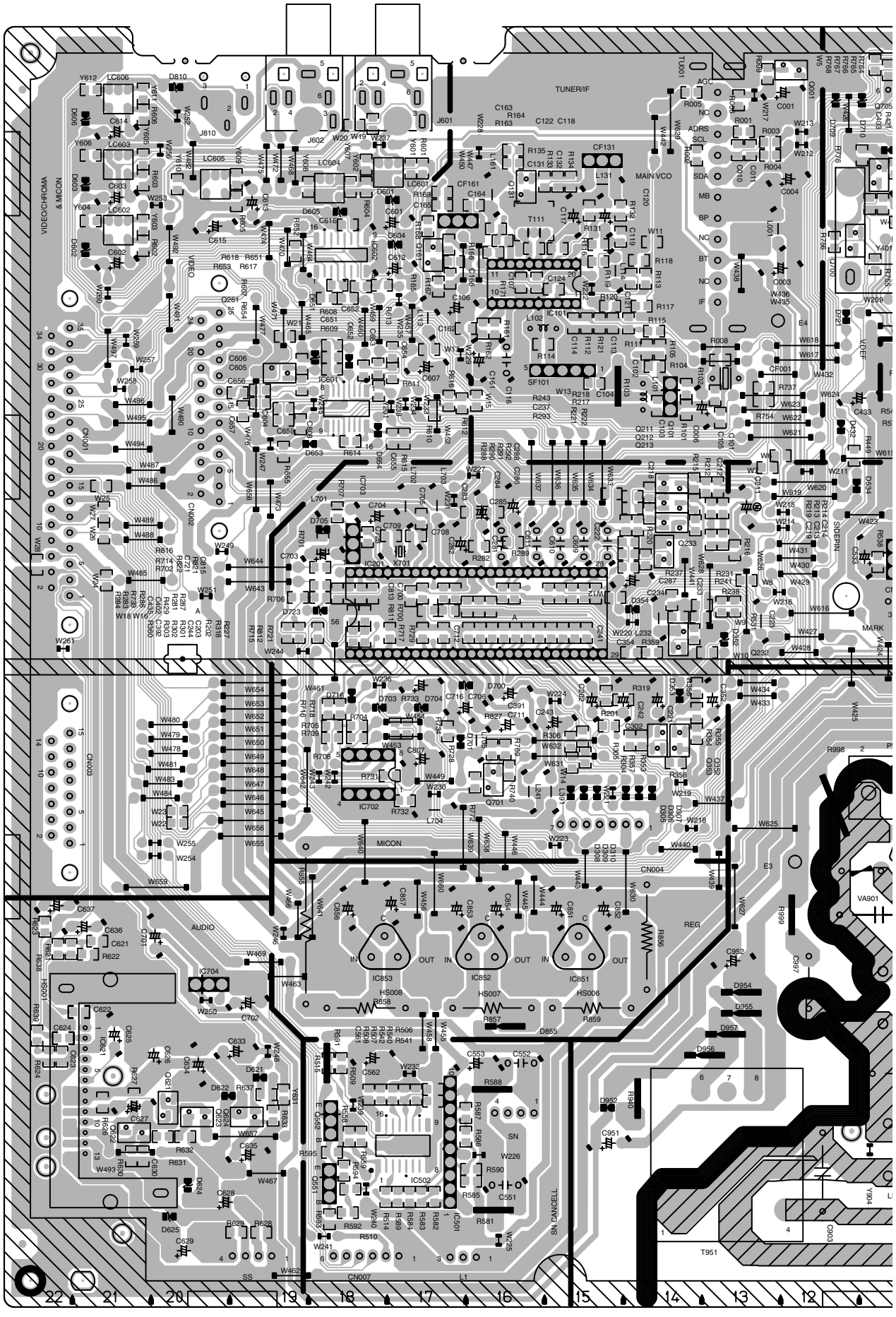
PIP PWB CIRCUIT DIAGRAM

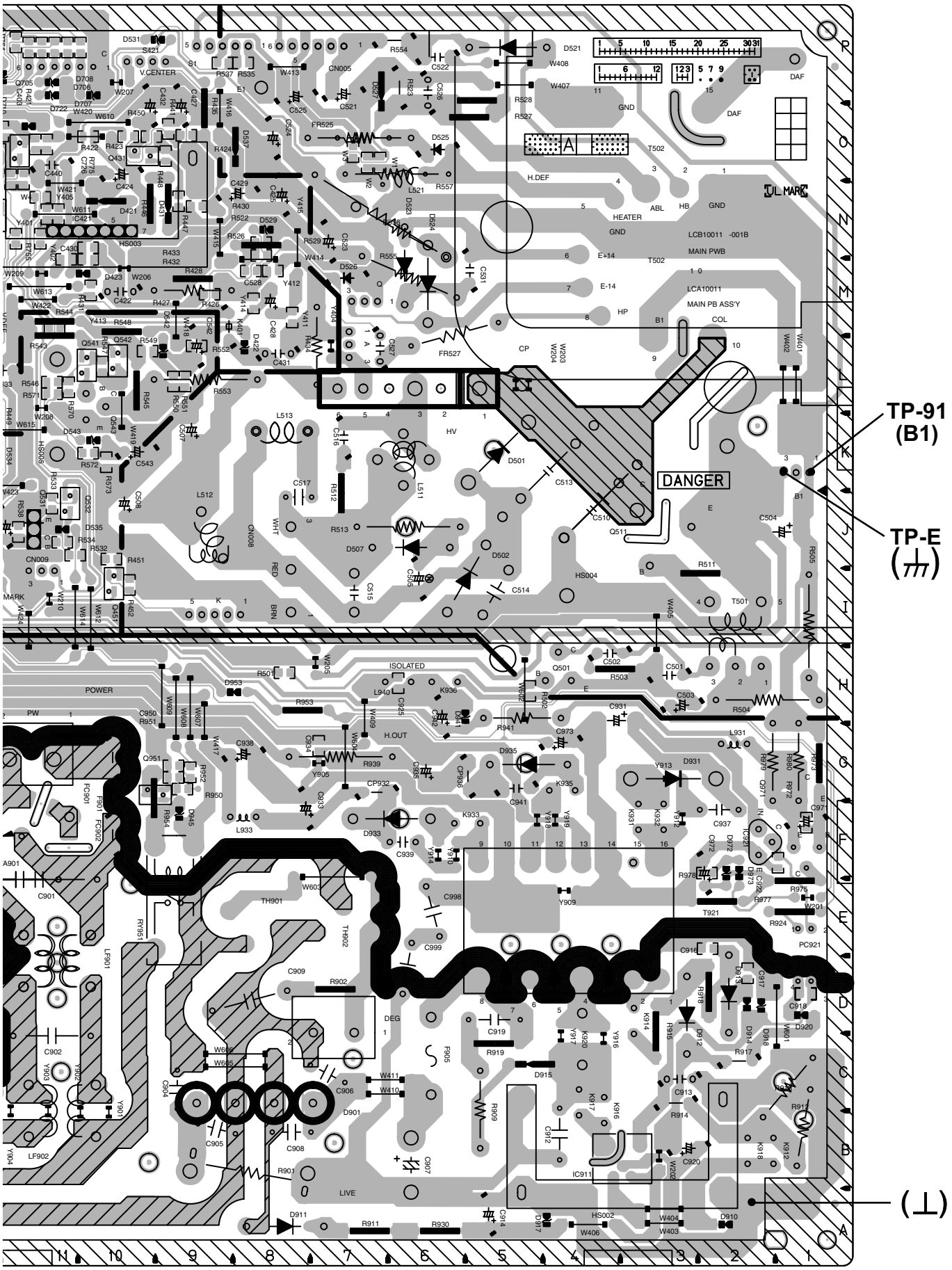



IC4101
M52342SP
IF DET
AF_AMP
IF_AGC
VIF_AMP
RF_AGC
FM_DET
QIF_AMP
QIF_AGC
QIF_DET
APC
VIDEO DET
EQ AMP
Split
Inter
AFT
VCO
LIM_AMP
VccREG
SF4101
QAX0726-001
2SC5083/L-P/-T
QQLZ014-R22
QQL244K-150Z
QAX0639-001Z
4.5MHz TRAP
QQR0907-001
CW TRANSF
BUFFER
MIX2_R
MIX2_B
MIX2_G
MIX2_YS
PIP5V
MAIN PWB
NOTE
*1 : 2SB709A/QR/-X
*2 : 2SD601A/QR/-X
*3 : DTA124EKA-X
*4 : DTC124EKA-X
*5 : 1SS133-T2
*6 : MTZJ9.1C-T2
*7 : MTZJ5.6B-T2
*8 : DTC323TK-X
BW : BUS WIRE (0) Ω
OPT : NON MOUNT (OPEN)
0 : CHIP BUS WIRE (0) Ω

PATTERN DIAGRAMS *MAIN PWB PATTERN*

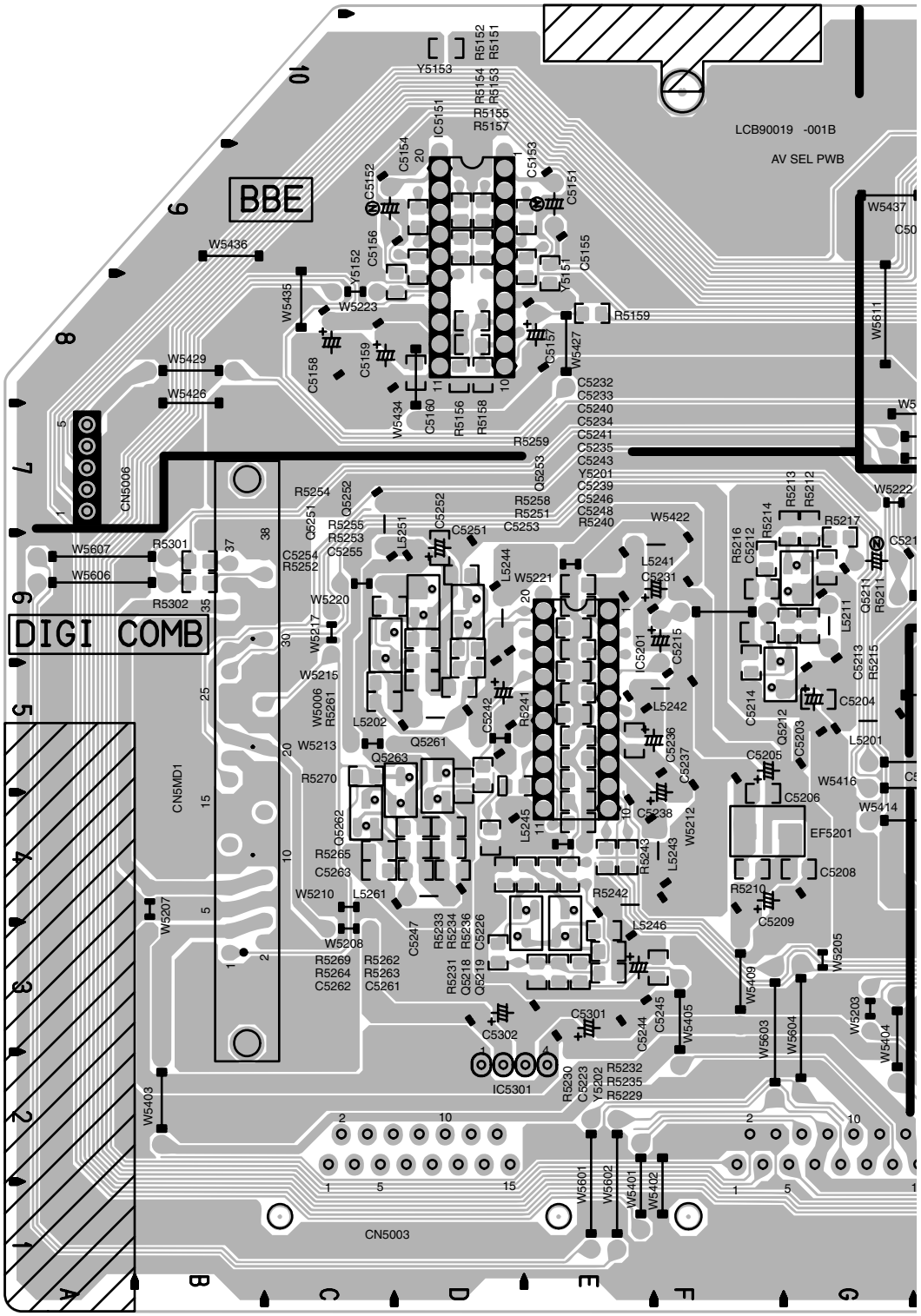
FRONT

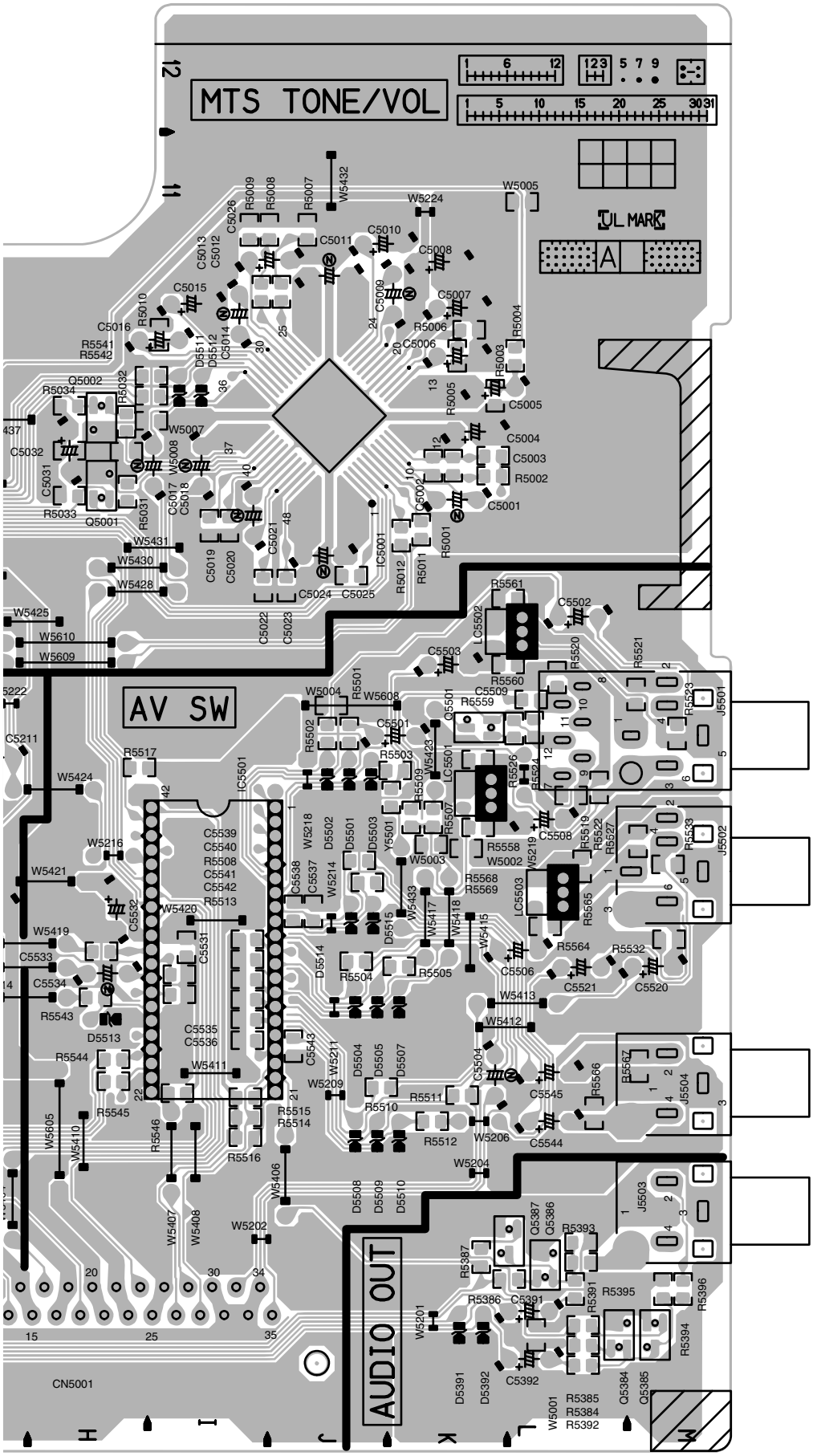



TP-91
(B1)
TP-E
(⏚)
(⊥)
DANGER
V.CENTER
H.DEF
HEATER
ABL
HB
GND
LCB10011 -001B
MAIN PWB
LCA10011
MAIN PB ASS'Y
HP
B1
COL
CP
HV
ISOLATED
POWER
H.OUT
DEG
LIVE
DAF
UL MARK

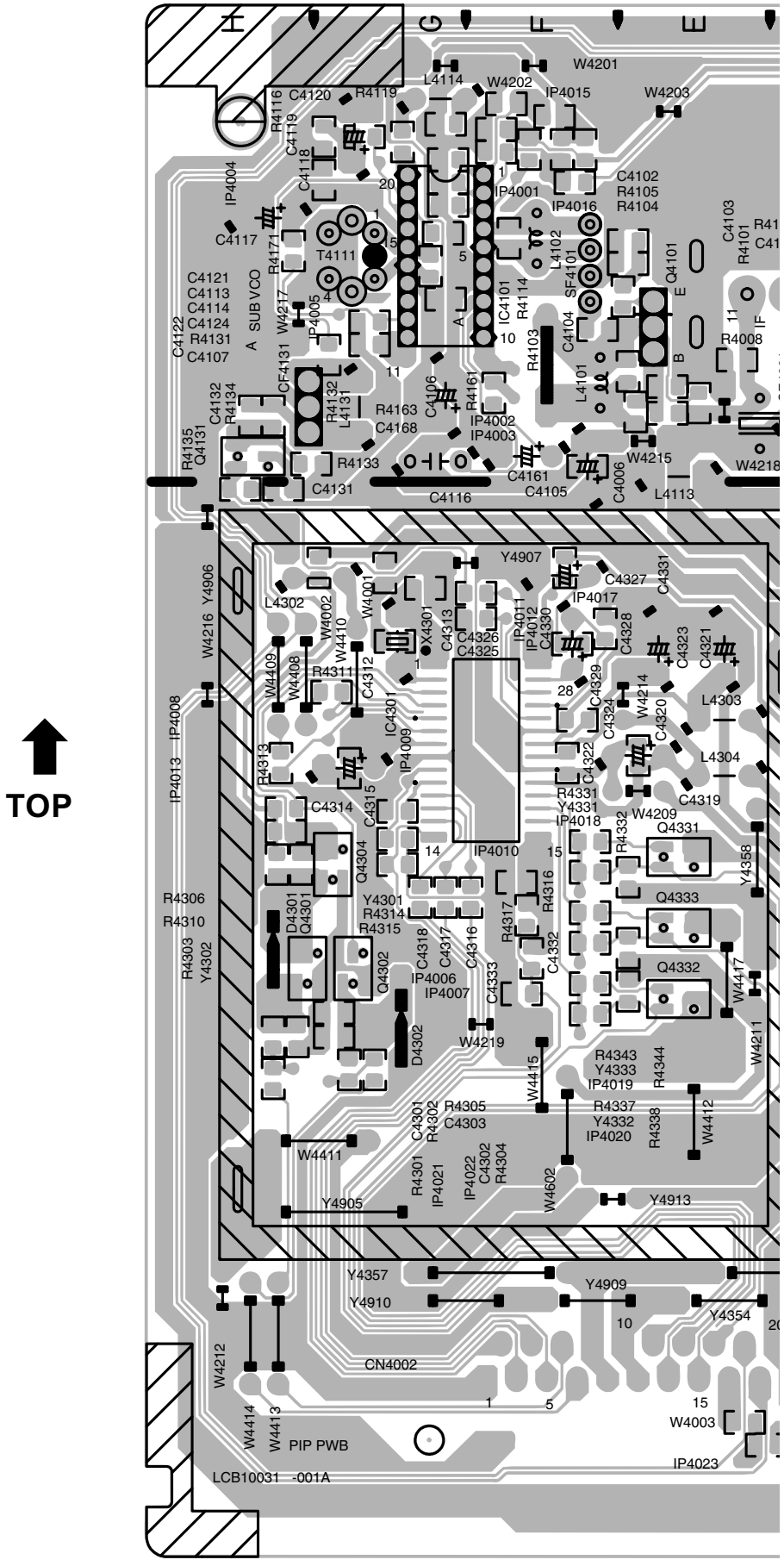
AV SEL PWB PATTERN

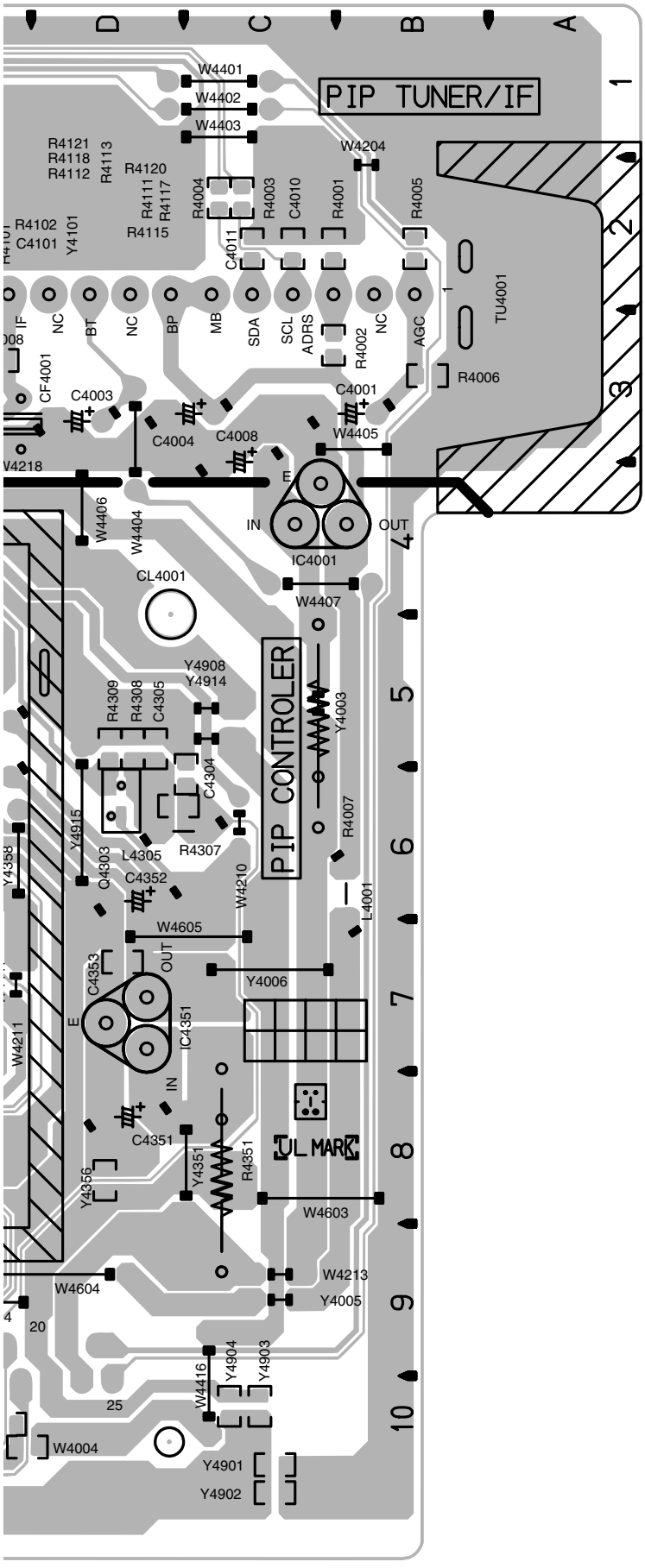
TOP



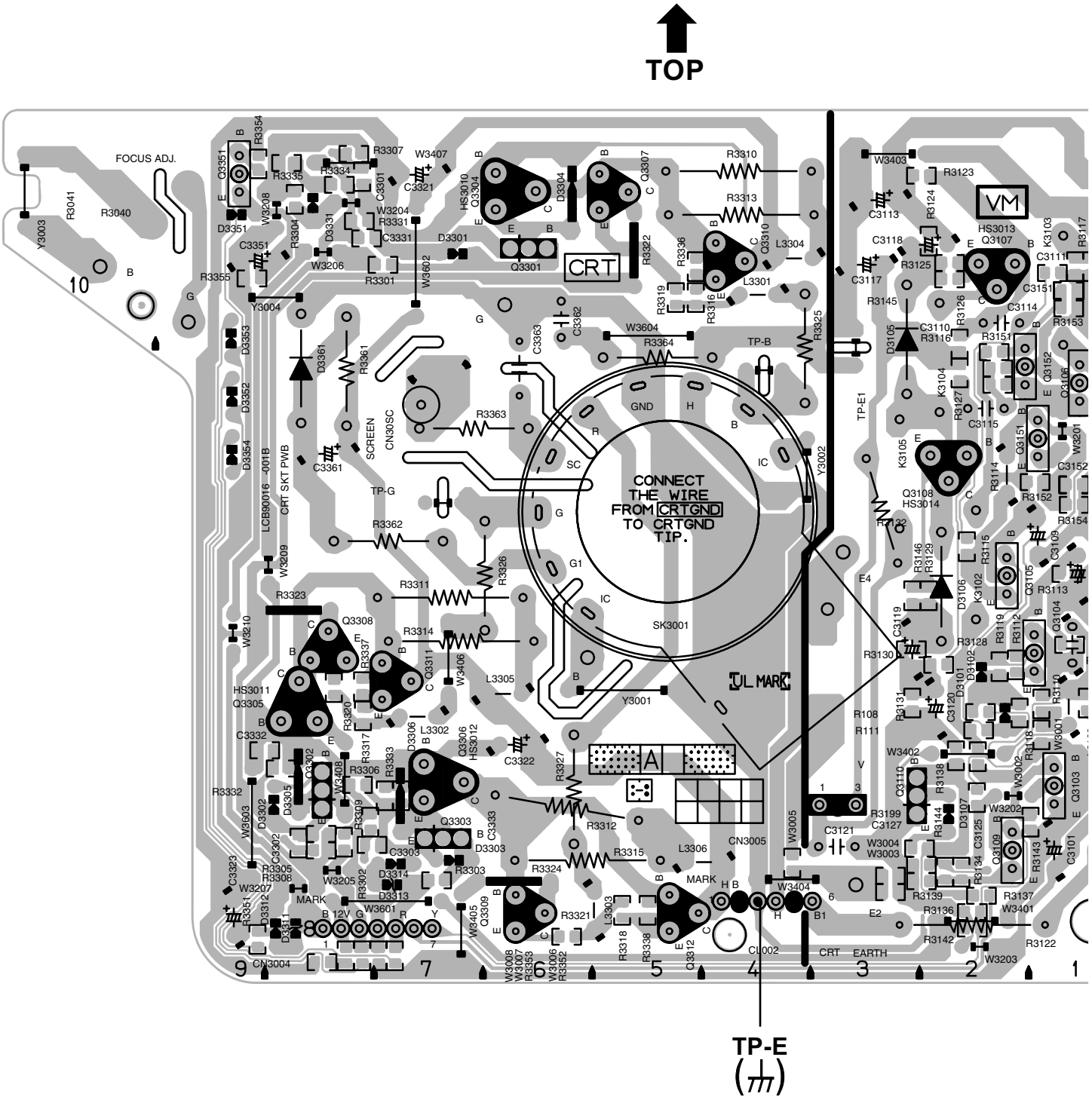

MTS TONE/VOL
AV SW
AUDIO OUT
UL MARK
CN5001
J5501
J5502
J5503
J5504
IC5501
LC5501
LC5502
LC5503
Q5001
Q5002
Q5384
Q5385
Q5386
Q5387

PIP PWB PATTERN [AV-27F803]

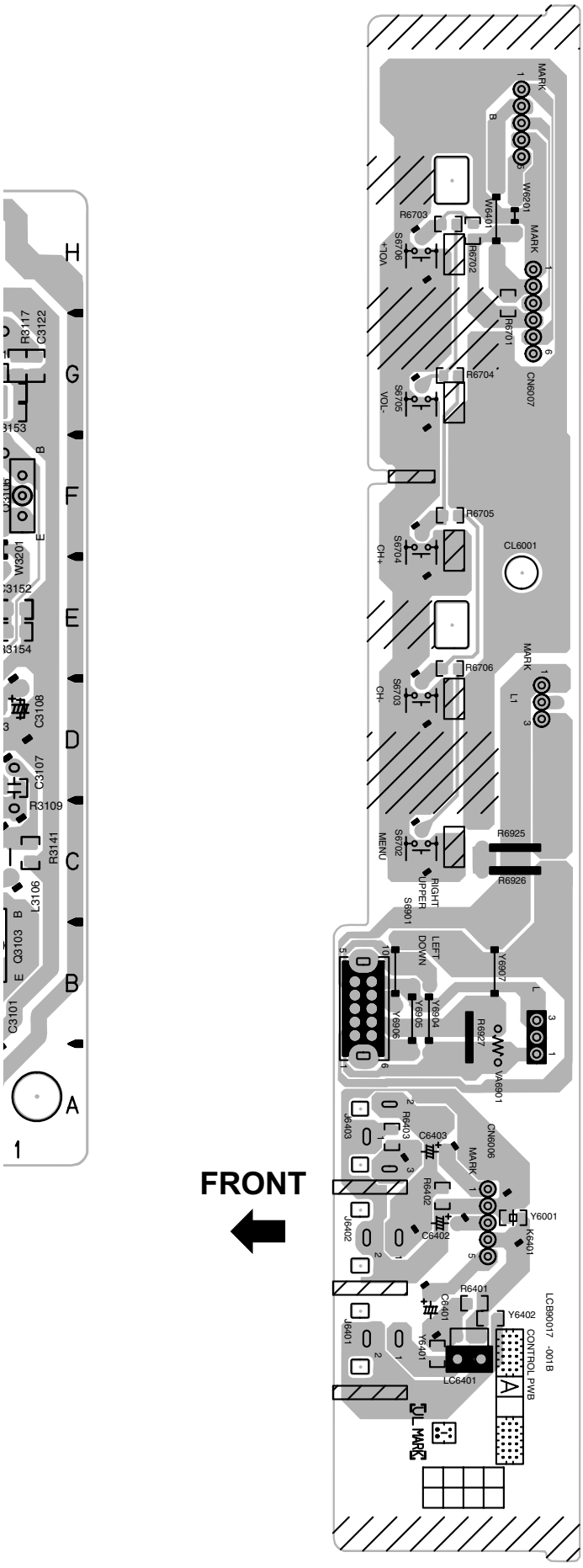



PIP TUNER/IF
PIP CONTROLER
W4401
W4402
W4403
W4204
R4121
R4118
R4112
R4113
R4120
R4111
R4117
R4115
R4102
C4101
Y4101
R4004
R4003
C4010
R4001
R4005
C4011
TU4001
IF
NC
BT
NC
BP
MB
SDA
SCL
ADRS
R4002
NC
AGC
R4006
CF4001
C4003
C4004
C4008
C4001
W4405
W4218
W4406
W4404
E
IN
OUT
IC4001
CL4001
W4407
Y4908
Y4914
R4309
R4308
C4305
Y4003
C4304
R4007
Y4915
Q4303
L4305
R4307
C4352
W4210
L4001
W4605
OUT
C4353
Y4006
E
IC4351
W4211
IN
C4351
Y4351
R4351
Y4356
W4603
W4604
W4213
Y4005
20
Y4904
Y4903
W4416
25
W4004
Y4901
Y4902
UL MARK

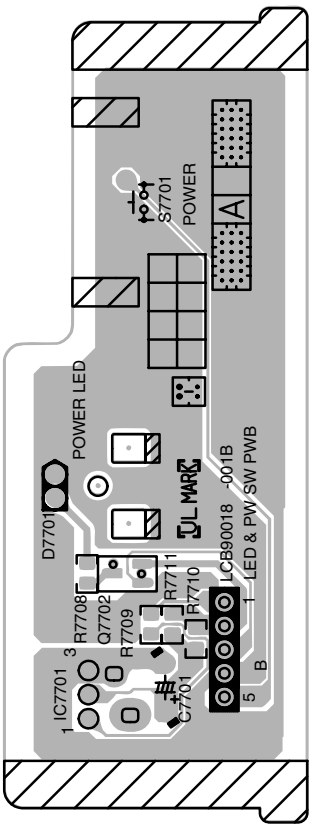
CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN



LED & POWER SW PWB PATTERN



FRONT

CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		Ⅰ
			03		
			04		
			05		
			06		
		VH	07		Ⅱ
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	Ⅰ
			B	15	
			C	16	Ⅱ
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	Ⅳ
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	Ⅳ
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	Ⅰ
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		Ⅳ

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		Ⅰ
			03		
			04		
			05		
			06		
		VH	07		Ⅱ
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	Ⅲ
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	Ⅳ
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	Ⅳ
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	Ⅰ
			A-4	96	
			A-3	97	Ⅱ
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		Ⅳ

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

.DIVISION OF JVC AMERICAS CORP

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JVC

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VP 0206
DP 6060

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

AV-27F703
AV-27F713
AV-27F803

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USING P.W. BOARD & REMOTE CONTROL UNIT

Model / P.W.B ASS'Y	AV-27F703/S	AV-27F713/S	AV-27F803/S
MAIN PWB	SGJ-1004A-M2	SGJ-1003A-M2	SGJ-1002A-M2
CRT SOCKET PWB	SGJ-3002A-M2	←	←
PIP PWB	——	——	SGJ-4001A-M2
AV SEL PWB	SGJ-5002A-M2	←	SGJ-5001A-M2
FRONT CONTROL PWB	SGJ-6001A-M2	←	←
LED & POWER SW PWB	SGJ-7001A-M2	←	←
3D Y/C SEP MODULE PWB	——	——	SGJ0Y001A-M2
REMOTE CONTROL UNIT	RM-C326G-1A	RM-C326-1A	RM-C325G-1A

EXPLODED VIEW PARTS LIST(1)

[AV-27F703/S]

⚠	Ref.No.	Part No.	Part Name	Description
	1	CM48006-008-C	JVC MARK	
	2	LC30191-003A-A	REMOCON LENS	
	3	GQ40020-004A-A	CORNER STICKER	
⚠	100	LC10878-003B-A	FRONT CABI ASSY	Inc.No.101～105
⚠	101	LC20628-001C-A	DOOR	
	102	CM48229-00A-C	DOOR LATCH	
⚠	103	LC31237-001A-A	KNOB(POWER)	
	104	CM36481-002A-A	SPRING	
	105	LC31238-004A-A	OPERATION SHEET	

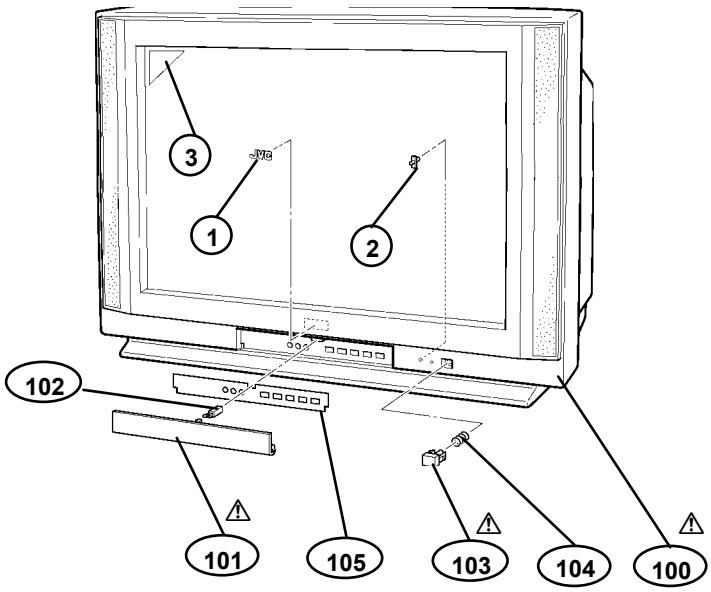
[AV-27F713/S]

⚠	Ref.No.	Part No.	Part Name	Description
	1	CM48006-009-C	JVC MARK	
	2	LC30191-003A-A	REMOCON LENS	
	3	GQ40020-005A-A	CORNER STICKER	
⚠	100	LC10878-004A-A	FRONT CABI ASSY	Inc.No.101～105
⚠	101	LC20628-002A-A	DOOR	
	102	CM48229-00A-C	DOOR LATCH	
⚠	103	LC31237-002A-A	KNOB(POWER)	
	104	CM36481-002A-A	SPRING	
	105	LC31238-005A-A	OPERATION SHEET	

[AV-27F803/S]

⚠	Ref.No.	Part No.	Part Name	Description
	1	CM48006-008-C	JVC MARK	
	2	LC30191-003A-A	REMOCON LENS	
	3	GQ40020-006A-A	CORNER STICKER	
⚠	100	LC10878-003B-A	FRONT CABI ASSY	Inc.No.101～105
⚠	101	LC20628-001C-A	DOOR	
	102	CM48229-00A-C	DOOR LATCH	
⚠	103	LC31237-001A-A	KNOB(POWER)	
	104	CM36481-002A-A	SPRING	
	105	LC31238-004A-A	OPERATION SHEET	

EXPLODED VIEW (1)



EXPLODED VIEW PARTS LIST(2)

[AV-27F703/S]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
⚠	L01	QQW0090-001	DEGAUSSING COIL	
⚠	T502	QQH0121-001	FB TRANSF	
	4	A48457-4-S	SPRING	
	5	WJY0016-001A	E-BRAIDED ASSY	
	6	WJY0013-003A	E-BRAIDED SUB ASSY	
⚠	7	LC20217-004B-A	CONTROL KNOB	
	8	QAS0101-001	SPEAKER	(x2)SP01-02
⚠	9	LC10883-001C-A	CHASSIS BASE	
⚠	10	LC20899-004A-A	TERMINAL BOARD	
	11	QYSBSB3010Z	SCREW	(x4)
⚠	12	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS Within MAIN PWB(CN0PW)
⚠	13	LC20106-001D-A	POWER CORD CLAMP	
⚠	14	LC10880-001D-A	REAR COVER	
	15	QYSBSFG4016Z	SCREW	(x12)
⚠	16	GQ30032-001A-A	RATING LABEL	
⚠	17	GQ30034-001B-A	WARNING LABEL	

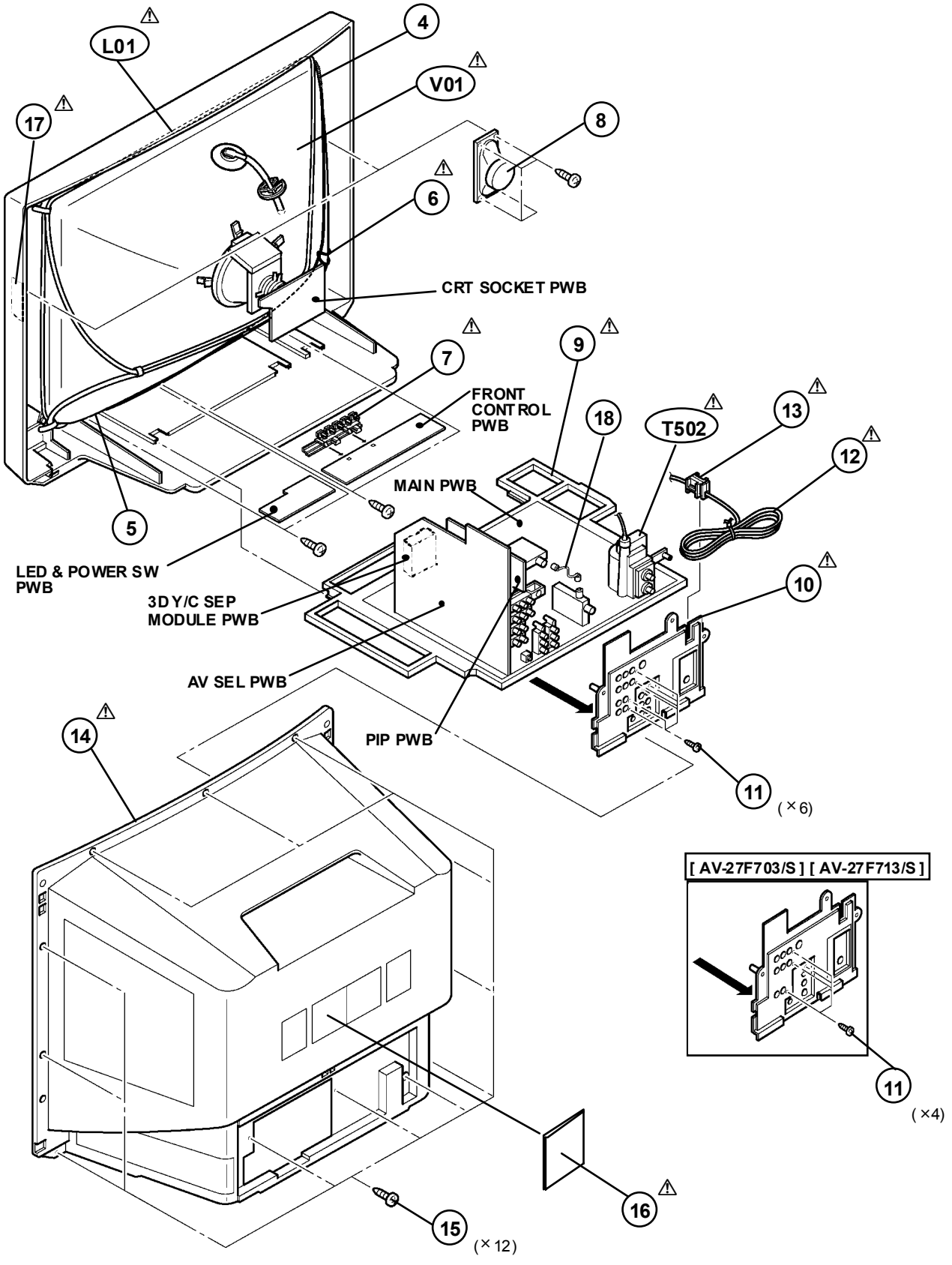
[AV-27F713/S]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
⚠	L01	QQW0090-001	DEGAUSSING COIL	
⚠	T502	QQH0121-001	FB TRANSF	
	4	A48457-4-S	SPRING	
	5	WJY0016-001A	E-BRAIDED ASSY	
	6	WJY0013-003A	E-BRAIDED SUB ASSY	
⚠	7	LC20217-006A-A	CONTROL KNOB	
	8	QAS0101-001	SPEAKER	(x2)SP01-02
⚠	9	LC10883-001C-A	CHASSIS BASE	
⚠	10	LC20899-004A-A	TERMINAL BOARD	
	11	QYSBSB3010Z	SCREW	(x4)
⚠	12	QMPD200-200-JC	POWER CORD or	QMPD390-200-JS Within MAIN PWB(CN0PW)
⚠	13	LC20106-001D-A	POWER CORD CLAMP	
⚠	14	LC10880-001D-A	REAR COVER	
	15	QYSBSFG4016Z	SCREW	(x12)
⚠	16	GQ30032-001A-A	RATING LABEL	
⚠	17	GQ30034-001B-A	WARNING LABEL	

[AV-27F803/S]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
⚠	L01	QQW0090-001	DEGAUSSING COIL	
⚠	T502	QQH0121-001	FB TRANSF	
	4	A48457-4-S	SPRING	
	5	WJY0016-001A	E-BRAIDED ASSY	
	6	WJY0013-003A	E-BRAIDED SUB ASSY	
⚠	7	LC20217-004B-A	CONTROL KNOB	
	8	QAS0101-001	SPEAKER	(x2)SP01-02
⚠	9	LC10883-001C-A	CHASSIS BASE	
⚠	10	LC20899-005A-A	TERMINAL BOARD	
	11	QYSBSB3010Z	SCREW	(x6)
⚠	12	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS Within MAIN PWB(CN0PW)
⚠	13	LC20106-001D-A	POWER CORD CLAMP	
⚠	14	LC10880-001D-A	REAR COVER	
	15	QYSBSFG4016Z	SCREW	(x12)
⚠	16	GQ30032-001A-A	RATING LABEL	
⚠	17	GQ30034-001B-A	WARNING LABEL	
	18	WJX0014-002A	E-COAXIAL ASSY	[AV-27F803/S ONLY]

EXPLODED VIEW (2)



[AV-27F703/S] [AV-27F713/S] [AV-27F803/S]

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y

(SGJ-1004A-M2)[AV-27F703/S] / (SGJ-1003A-M2)[AV-27F713/S] / (SGJ-1002A-M2)[AV-27F803/S]

⚠	Symbol No.	Part No.	Part Name	Description
⚠	CNOPW	QMPD200-200-JC	POWER CORD	
⚠	OR	QMPD390-200-JS	POWER CORD	
⚠	FR525	QRZ9017-4R7	F R	4.7Ω 1/4W J
⚠	FR527	QRZ9011-470	F R	47Ω 1/2W J
⚠	TU001	QAU0272-001	TUNER, 803S	
⚠	TU001	QAU0274-001	TUNER, 713S/703S	
	IC101	M52342SP	IC	
	IC201	TM8812CSBNG3U68	IC	
⚠	IC421	LA7841	IC	
	IC601	TA1287F	IC, 803S	
	IC602	M52055FP	IC, 803S	
	IC621	LA4485	IC	
	IC702	AT24C08-32F803	IC	(SERVICE)
	IC703	S-80840CNY-T	IC	
	IC704	AN78L05	IC	
	IC851	BA12T	IC	
	OR	MPC2412AHF	IC	
	IC852	AN7809F	IC	
	OR	BA17809T	IC	
	IC853	AN7805F	IC	
	OR	BA17805T	IC	
⚠	IC911	STR-G6624/F8	IC	
⚠	IC921	SE135N	IC	
	Q001	UN2212	DIGI TRANSISTOR	
	Q101	2SC5083/L-P/-T	TRANSISTOR	
	Q131	2SB709A/QR/-X	TRANSISTOR	
	Q161	2SD601A/QR/-X	TRANSISTOR	
	Q211	2SD601A/QR/-X	TRANSISTOR	
	Q232	2SD601A/QR/-X	TRANSISTOR	
	Q233	2SD601A/QR/-X	TRANSISTOR	
	Q352	2SD601A/QR/-X	TRANSISTOR	
	Q353	2SD601A/QR/-X	TRANSISTOR	
	Q431	UN2212	DIGI TRANSISTOR	
	Q501	2SC4212/Z1/	TRANSISTOR	
⚠	Q511	2SD2645-YD	POWER TRANSISTO	H.OUT
	Q531	2SC2785/JH/-T	SI TRANSISTOR	
	Q532	2SB709A/QR/-X	TRANSISTOR	
	Q541	2SB709A/QR/-X	TRANSISTOR	
	Q542	2SB709A/QR/-X	TRANSISTOR	
	Q543	2SD1408/OY/-LB	POW TRANSISTOR	
	Q622	2SD601A/QR/-X	TRANSISTOR	
	Q623	UN2212	DIGI TRANSISTOR	
	Q700	2SD601A/QR/-X	TRANSISTOR, 803S	
	Q701	2SB709A/QR/-X	TRANSISTOR	
	Q705	2SD601A/QR/-X	TRANSISTOR, 803S	
	Q951	2SD1383K/AB/-X	TRANSISTOR	
	Q971	2SA1208/ST/Z1-T	TRANSISTOR	
	D305	1SS133	DIODE	
	D306	1SS133	DIODE	
	D307	1SS133	DIODE	
	D308	1SS133	DIODE	
	D309	1SS133	DIODE	
	D310	1SS133	DIODE	
	D352	MTZJ9.1C	ZENER DIODE	
	D353	1SS133	DIODE	
	D354	MTZJ3.3A	ZENER DIODE	
	D421	1N4003	DIODE	
	D422	MTZJ75	ZENER DIODE	
	D432	1SS133	DIODE	
	D501	RH3G-F1	DIODE	
⚠	D502	RU3AM-LFC4	DIODE	
	D507	RGP10J-5025-T3	DIODE	
	D521	RH1S-T3	DIODE	
	D523	RGP10J-5025-T3	DIODE	
	D525	1SS81-T5	DIODE	
	D526	1SS81-T5	DIODE	
	D527	1SR124-400A-T2	DIODE	
	D529	MTZJ9.1C	ZENER DIODE	
⚠	D531	MA4068N/Z1/-T2	ZENER DIODE	
	D534	QUY153-050Y	IM BUS WIRE	
	D535	1SS133	DIODE	
	D537	1SR35-400A-T2	DIODE	
	D601	MTZJ9.1C	ZENER DIODE	
	D602	MTZJ9.1C	ZENER DIODE	
	D603	MTZJ9.1C	ZENER DIODE	
	D604	MTZJ9.1C	ZENER DIODE, 803S	
	D605	MTZJ9.1C	ZENER DIODE, 803S	
	D606	MTZJ9.1C	ZENER DIODE, 803S	
	D653	1SS133	DIODE, 803S	
	D654	1SS133	DIODE, 803S	
	D700	MTZJ5.6B	ZENER DIODE	
	D701	1SS133	DIODE	
	D703	MTZJ5.6B	ZENER DIODE	
	D704	MTZJ5.6B	ZENER DIODE	
	D705	1SS133	DIODE	
	D706	MTZJ5.6B	ZENER DIODE	
	D707	MTZJ5.6B	ZENER DIODE	
	D708	MTZJ5.6B	ZENER DIODE	
	D709	MTZJ5.6B	ZENER DIODE	
	D721	1SS133	DIODE, 803S	
	D722	1SS133	DIODE, 803S	
	D723	MTZJ5.6B	ZENER DIODE	
	D810	MTZJ5.6B	ZENER DIODE	
⚠	D901	GSIB460-S1	BRIDGE DIODE	
	D910	MA700A	SB DIODE	
⚠	D911	RGP10J-5025-T3	DIODE	
⚠	D912	RGP10J-5025-T3	DIODE	
⚠	D913	RGP10J-5025-T3	DIODE	
	D914	1SS133	DIODE	
	D915	SARS01	DIODE	
	D917	MTZJ30A	ZENER DIODE	
	D918	MTZJ5.1C	ZENER DIODE	
	D920	1SS133	DIODE	
	D931	RU30A-F1	DIODE	
	D933	RU3YX-LFC4	DIODE	
	D935	RU3YX-LFC4	DIODE	
	D941	MTZJ33A	ZENER DIODE	
	D945	MTZJ9.1B	ZENER DIODE	
	D952	1SS133	DIODE	
	D953	1SS133	DIODE	
	D954	1SR35-400A-T2	DIODE	
	D955	1SR35-400A-T2	DIODE	
	D956	1SR35-400A-T2	DIODE	
	D957	1SR35-400A-T2	DIODE	
	D972	MTZJ15C	ZENER DIODE	
	D973	1SS133	DIODE	
	R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R003	NRSA63J-101X	MG R	100Ω 1/16W J
	R004	NRSA63J-101X	MG R	100Ω 1/16W J
	R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R008	NRSA63J-820X	MG R	82Ω 1/16W J
	R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R103	QRE121J-101Y	C R	100Ω 1/2W J
	R104	NRSA63J-180X	MG R	18Ω 1/16W J
	R105	NRSA63J-270X	MG R	27Ω 1/16W J
	R111	NRSA63J-394X	MG R	390kΩ 1/16W J
	R112	NRSA63J-334X	MG R	330kΩ 1/16W J
	R113	NRSA63J-101X	MG R	100Ω 1/16W J
	R115	NRSA63J-101X	MG R	100Ω 1/16W J
	R116	NRSA63J-680X	MG R	68Ω 1/16W J
	R117	NRSA63J-273X	MG R	27kΩ 1/16W J
	R118	NRSA63J-223X	MG R	22kΩ 1/16W J
	R131	NRSA63J-102X	MG R	1kΩ 1/16W J
	R132	NRSA63J-331X	MG R	330Ω 1/16W J
	R133	NRSA63J-821X	MG R	820Ω 1/16W J
	R134	NRSA63J-561X	MG R	560Ω 1/16W J
	R135	NRSA63J-102X	MG R	1kΩ 1/16W J
	R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R163	NRSA63J-223X	MG R	22kΩ 1/16W J
	R164	NRSA63J-102X	MG R	1kΩ 1/16W J
	R165	NRSA63J-223X	MG R	22kΩ 1/16W J
	R166	NRSA63J-103X	MG R	10kΩ 1/16W J
	R167	NRSA63J-102X	MG R	1kΩ 1/16W J
	R168	NRSA63J-101X	MG R	100Ω 1/16W J
	R169	NRSA63J-561X	MG R	560Ω 1/16W J
	R171	NRSA63J-103X	MG R	10kΩ 1/16W J
	R201	NRSA63J-223X	MG R	22kΩ 1/16W J
	R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R217	NRSA63J-102X	MG R	1kΩ 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R227	NRSA63J-104X	MG R	100kΩ 1/16W J
	R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R238	NRSA63J-473X	MG R	47kΩ 1/16W J
	R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R283	NRSA63J-681X	MG R	680Ω 1/16W J
	R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R287	NRSA63J-101X	MG R	100Ω 1/16W J
	R288	NRSA02J-471X	MG R	470Ω 1/10W J
	R289	NRSA63J-154X	MG R	150kΩ 1/16W J
	R290	NRSA02J-561X	MG R	560Ω 1/10W J
	R292	NRSA63J-124X	MG R	120kΩ 1/16W J
	R293	NRSA63J-224X	MG R	220kΩ 1/16W J
	R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R304	NRSA63J-101X	MG R	100Ω 1/16W J
	R305	NRSA63J-101X	MG R	100Ω 1/16W J
	R306	NRSA63J-101X	MG R	100Ω 1/16W J
	R318	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R319	NRSA63J-102X	MG R	1kΩ 1/16W J
	R352	QRE141J-103Y	C R	10kΩ 1/4W J
	OR	NRSA63J-103X	MG R	10kΩ 1/16W J
	R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R356	NRSA63J-123X	MG R	12kΩ 1/16W J
	R357	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R358	NRSA63J-333X	MG R	33kΩ 1/16W J
	R359	NRSA63J-103X	MG R	10kΩ 1/16W J
	R360	NCB31HK-103X	C CAP.	0.01μF 50V K
	R361	QRE141J-0R0Y	C R	0.0Ω 1/4W J
	R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R423	NRSA63J-393X	MG R	39kΩ 1/16W J
	R424	NRSA63J-393X	MG R	39kΩ 1/16W J
	R426	NRSA63J-183X	MG R	18kΩ 1/16W J
	R427	QRT029J-1R2	MF R	1.2Ω 2W J
	R429	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R432	NRSA63J-101X	MG R	100Ω 1/16W J
	R433	NRSA63J-681X	MG R	680Ω 1/16W J
	R434	QRL029J-181	OM R	180Ω 2W J
	R435	QRE121J-102Y	C R	1kΩ 1/2W J
	R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R447	NRSA63J-104X	MG R	100kΩ 1/16W J
	R448	NRSA63J-473X	MG R	47kΩ 1/16W J
	R449	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R453	QRE121J-102Y	C R	1kΩ 1/2W J
	R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R502	NRSA63J-271X	MG R	270Ω 1/16W J
	R503	QRE121J-103Y	C R	10kΩ 1/2W J
	R504	QRL039J-152	OM R	1.5kΩ 3W J
	R505	QRL039J-182	OM R	1.8kΩ 3W J
	R511	QRE121J-220Y	C R	22Ω 1/2W J
	R512	QRE121J-681Y	C R	680Ω 1/2W J
	R513	QRL039J-273	OM R	27kΩ 3W J
	R523	QRE141J-563Y	C R	56kΩ 1/4W J
	R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R527	QRE121J-124Y	C R	120kΩ 1/2W J
	R528	QRE121J-154Y	C R	150kΩ 1/2W J
	R529	NRSA63J-331X	MG R	330Ω 1/16W J
	R531	QRJ146J-391X	C R	390Ω 1/4W J
	R532	NRSA63J-273X	MG R	27kΩ 1/16W J
	R533	NRSA63J-123X	MG R	12kΩ 1/16W J
	R534	NRSA63J-123X	MG R	12kΩ 1/16W J
⚠	R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
⚠	R537	NRZC032-7151X	MF R	7.15kΩ 1/10W±0.5%
	R538	NRSA63J-333X	MG R	33kΩ 1/16W J
	R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
	R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
	R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
	R546	NRSA63J-331X	MG R	330Ω 1/16W J
	R547	NRSA63J-104X	MG R	100kΩ 1/16W J
	R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R553	QRL039J-390	OM R	39Ω 3W J

⚠	Symbol No.	Part No.	Part Name	Description
⚠	R554	QRK126J-150X	C R	15Ω 1/2W J
	R555	QRX029J-3R3	MF R	3.3Ω 2W J
	R601	NRSA63J-750X	MG R	75Ω 1/16W J
	R602	NRSA63J-750X	MG R	75Ω 1/16W J
	R603	NRSA63J-750X	MG R	75Ω 1/16W J
	R604	NRSA63J-750X	MG R	75Ω 1/16W J, 803S
	R605	NRSA63J-750X	MG R	75Ω 1/16W J, 803S
	R606	NRSA63J-750X	MG R	75Ω 1/16W J, 803S
	R610	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R611	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R614	NRSA63J-682X	MG R	6.8kΩ 1/16W J, 803S
	R615	NRSA63J-332X	MG R	3.3kΩ 1/16W J, 803S
	R616	NRSA63J-332X	MG R	3.3kΩ 1/16W J, 803S
	R617	NRSA63J-332X	MG R	3.3kΩ 1/16W J, 803S
	R618	NRSA63J-332X	MG R	3.3kΩ 1/16W J, 803S
	R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R622	NRSA63J-681X	MG R	680Ω 1/16W J
	R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R624	NRSA63J-681X	MG R	680Ω 1/16W J
	R626	NRSA63J-223X	MG R	22kΩ 1/16W J
	R627	NRSA63J-223X	MG R	22kΩ 1/16W J
	R631	NRSA63J-333X	MG R	33kΩ 1/16W J
	R632	NRSA63J-223X	MG R	22kΩ 1/16W J
	R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R655	NRSA63J-153X	MG R	15kΩ 1/16W J, 803S
	R700	NRSA63J-102X	MG R	1kΩ 1/16W J
	R701	NRSA63J-103X	MG R	10kΩ 1/16W J
	R702	NRSA63J-102X	MG R	1kΩ 1/16W J
	R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R707	NRSA63J-103X	MG R	10kΩ 1/16W J
	R708	NRSA63J-101X	MG R	100Ω 1/16W J
	R709	NRSA63J-101X	MG R	100Ω 1/16W J
	R714	NRSA63J-823X	MG R	82kΩ 1/16W J, 803S
	R715	NRSA63J-103X	MG R	10kΩ 1/16W J
	R718	NRSA63J-223X	MG R	22kΩ 1/16W J
	R721	NRSA63J-102X	MG R	1kΩ 1/16W J
	R728	NRSA63J-102X	MG R	1kΩ 1/16W J
	R729	NRSA63J-223X	MG R	22kΩ 1/16W J
	R731	NRSA63J-101X	MG R	100Ω 1/16W J
	R732	NRSA63J-101X	MG R	100Ω 1/16W J
	R733	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R734	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R737	NRSA63J-472X	MG R	4.7kΩ 1/16W J, 803S
	R739	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R740	NRSA63J-103X	MG R	10kΩ 1/16W J
	R754	NRSA63J-472X	MG R	4.7kΩ 1/16W J, 803S
	R755	NRSA63J-153X	MG R	15kΩ 1/16W J, 803S
	R756	NRSA63J-103X	MG R	10kΩ 1/16W J, 803S
	R764	NRSA63J-221X	MG R	220Ω 1/16W J
	R765	NRSA63J-221X	MG R	220Ω 1/16W J
	R766	NRSA63J-221X	MG R	220Ω 1/16W J
	R767	NRSA63J-221X	MG R	220Ω 1/16W J
	R769	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R772	NRSA63J-103X	MG R	10kΩ 1/16W J
	R775	NRSA63J-473X	MG R	47kΩ 1/16W J, 803S
	R776	NRSA63J-103X	MG R	10kΩ 1/16W J, 803S
	R811	NRSA63J-473X	MG R	47kΩ 1/16W J
	R812	NRSA63J-102X	MG R	1kΩ 1/16W J
	R816	NRSA63J-124X	MG R	120kΩ 1/16W J
	R821	NRSA63J-184X	MG R	180kΩ 1/16W J
	R822	NRSA63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
	R822	NRSA63J-124X	MG R	120kΩ 1/16W J, 803S
	R827	NRSA63J-102X	MG R	1kΩ 1/16W J
	R855	QRX039J-6R8	MF R	6.8Ω 3W J
	R857	QRL029J-820	OM R	82Ω 2W J
	R858	QRL029J-390	OM R	39Ω 2W J, 803S
⚠	R901	QRF074K-R47	UNF R	0.47Ω 7W K
⚠	R909	QRG01GJ-470	OM R	47Ω 1W J
	R911	QRE121J-223Y	C R	22kΩ 1/2W J
	R912	QRT029J-R18	MF R	0.18Ω 2W J
	R913	QRT029J-R15	MF R	0.15Ω 2W J
⚠	R914	QRK126J-681X	C R	680Ω 1/2W J

⚠	Symbol No.	Part No.	Part Name	Description
	R915	QRK129J-6R8	C R	6.8Ω 1/2W J
⚠	R917	QRK126J-332X	C R	3.3kΩ 1/2W J
	R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R919	QRE121J-684Y	C R	680kΩ 1/2W J
	R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R930	QRE121J-223Y	C R	22kΩ 1/2W J
	R939	QRT039J-2R2	MF R	2.2Ω 3W J
	R940	QRE121J-181Y	C R	180Ω 1/2W J
	R941	QRL029J-183	OM R	18kΩ 2W J
	R950	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R951	NRSA63J-473X	MG R	47kΩ 1/16W J
	R952	NRSA63J-102X	MG R	1kΩ 1/16W J
	R953	QRE121J-820Y	C R	82Ω 1/2W J
	R954	QUY160-100Y	IM BUS WIRE	
	R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R975	QRE121J-223Y	C R	22kΩ 1/2W J
	R977	QRE121J-473Y	C R	47kΩ 1/2W J
	R978	NRSA63J-333X	MG R	33kΩ 1/16W J
	R979	QRT029J-1R2	MF R	1.2Ω 2W J
	R980	QRT029J-1R2	MF R	1.2Ω 2W J
⚠	R998	QRZ9041-275	C R	2.7MΩ 1/2W K
	R999	QRE121J-121Y	C R	120Ω 1/2W J
	C001	QETN1HM-475	E CAP.	4.7μF 50V M
	C003	QETN1HM-106	E CAP.	10μF 50V M
	C004	QETN1CM-108	E CAP.	1000μF 16V M
	C006	QETN1EM-476	E CAP.	47μF 25V M
	C101	NCB31HK-103X	C CAP.	0.01μF 50V K
	C102	NCB31HK-103X	C CAP.	0.01μF 50V K
	C104	NCB31HK-103X	C CAP.	0.01μF 50V K
	C105	NCB31HK-103X	C CAP.	0.01μF 50V K
	C106	QETN1EM-476	E CAP.	47μF 25V M
	C107	NCB31HK-103X	C CAP.	0.01μF 50V K
	C113	NCB31HK-103X	C CAP.	0.01μF 50V K
	C114	NCB31HK-103X	C CAP.	0.01μF 50V K
	C116	QFVF1HJ-224Z	MF CAP.	0.22μF 50V J
	C117	QETN1EM-476	E CAP.	47μF 25V M
	C118	NCB31HK-103X	C CAP.	0.01μF 50V K
	C119	NDC31HJ-681X	C CAP.	680pF 50V J
	C120	QETN1HM-474	E CAP.	0.47μF 50V M
	C124	NCB31HK-103X	C CAP.	0.01μF 50V K
	C131	NCB31HK-103X	C CAP.	0.01μF 50V K
	C161	QETN1HM-106	E CAP.	10μF 50V M
	C163	NDC31HJ-470X	C CAP.	47pF 50V J
	C164	NDC31HJ-470X	C CAP.	47pF 50V J
	C165	NCB31HK-103X	C CAP.	0.01μF 50V K
	C166	NCB31HK-103X	C CAP.	0.01μF 50V K
	C202	QETN1HM-105	E CAP.	1μF 50V M
	C203	NCB31HK-152X	C CAP.	1500pF 50V K
	C211	QENC1CM-106	E CAP.	10μF 16V M
	C212	NDC31HJ-100X	C CAP.	10pF 50V J
	C221	QETN1HM-106	E CAP.	10μF 50V M
	C222	QFVF1HJ-104Z	MF CAP.	0.1μF 50V J
	C223	NCB31HK-103X	C CAP.	0.01μF 50V K
	C233	NDC31HJ-680X	C CAP.	68pF 50V J
	C237	NCB31HK-103X	C CAP.	0.01μF 50V K
	C241	NCB31HK-103X	C CAP.	0.01μF 50V K
	C242	QETN1HM-225	E CAP.	2.2μF 50V M
	C243	QETN1CM-107	E CAP.	100μF 16V M
	C244	NCB31HK-103X	C CAP.	0.01μF 50V K
	C281	QFVF1HJ-474Z	MF CAP.	0.47μF 50V J
	C282	QETN1CM-107	E CAP.	100μF 16V M
	C283	NCB31HK-103X	C CAP.	0.01μF 50V K
	C284	QETN1HM-225	E CAP.	2.2μF 50V M
	C285	NCB31HK-103X	C CAP.	0.01μF 50V K
	C286	QETN1HM-106	E CAP.	10μF 50V M
	C287	QETN1CM-107	E CAP.	100μF 16V M
	C288	NCB31HK-103X	C CAP.	0.01μF 50V K
	C302	NCB31EK-104X	C CAP.	0.1μF 25V K
	C352	QETN1CM-476	E CAP.	47μF 16V M
	C354	NCB31HK-103X	C CAP.	0.01μF 50V K
	C391	QETN1CM-107	E CAP.	100μF 16V M
	C392	NCB31HK-103X	C CAP.	0.01μF 50V K
	C422	QFN32AK-102	M CAP.	1000pF 100V K
	C424	QETN1VM-107	E CAP.	100μF 35V M
	C425	QETN1VM-477	E CAP.	470μF 35V M
	C427	QETN1HM-225	E CAP.	2.2μF 50V M
	C428	QETM1EM-228	E CAP.	2200μF 25V M
	C431	QFLC2AK-563Z	M CAP.	0.056μF 100V K
	C432	QETN1EM-476	E CAP.	47μF 25V M
	C433	QETN1EM-476	E CAP.	47μF 25V M

⚠	Symbol No.	Part No.	Part Name	Description
	C435	NCB21HK-183X	C CAP.	0.018μF 50V K
	C440	QCS32HJ-100	C CAP.	10pF 500V J
	C501	QCB32HK-151	C CAP.	150pF 500V K
	C502	QCB32HK-331	C CAP.	330pF 500V K
	C503	QEHR2CM-105	E CAP.	1μF 160V M
	C504	QEZ0203-107	E CAP.	100μF 160V M
	C505	QENC2AM-225	E CAP.	2.2μF 100V M
	C507	QEM61HK-475	E CAP.	4.7μF 50V K
	C508	QEM61HK-475	E CAP.	4.7μF 50V K
⚠	C510	QFZ0196-582	MPP CAP.	5800pF 1.5kVH±3%
⚠	C513	QFZ0196-113	MPP CAP.	0.011μF 1.5kVH±3%
⚠	C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
⚠	C515	QFZ0199-404	MPP CAP.	0.4μF 250V J
⚠	OR	QFZ0197-404	MPP CAP.	0.4μF 250V J
	C516	QCB32HK-561	C CAP.	560pF 500V K
	C521	QETN2EM-106	E CAP.	10μF 250V M
	C523	QEHR1VM-108	E CAP.	1000μF 35V M
	C525	QETN1VM-107	E CAP.	100μF 35V M
	C526	QFV21HJ-824	MF CAP.	0.82μF 50V J
	C527	QFLC2AJ-103Z	M CAP.	0.01μF 100V J
	C533	QETN1HM-106	E CAP.	10μF 50V M
	C601	QETN1EM-476	E CAP.	47μF 25V M
	C602	QETN1EM-476	E CAP.	47μF 25V M
	C603	QETN1EM-476	E CAP.	47μF 25V M
	C604	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
	C605	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
	C606	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
	C607	QETN1AM-477	E CAP.	470μF 10V M, 803S
	C608	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
	C609	QFVF1HJ-104Z	MF CAP.	0.1μF 50V J
	C610	QFVF1HJ-104Z	MF CAP.	0.1μF 50V J
	C611	QFVF1HJ-104Z	MF CAP.	0.1μF 50V J
	C612	QETN1EM-476	E CAP.	47μF 25V M, 803S
	C613	QETN1EM-476	E CAP.	47μF 25V M, 803S
	C614	QETN1EM-476	E CAP.	47μF 25V M, 803S
	C615	QETN1AM-477	E CAP.	470μF 10V M, 803S
	C616	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
	C621	NCB31HK-102X	C CAP.	1000pF 50V K
	C622	NCF21CZ-105X	C CAP.	1μF 16V Z
	C623	NCB31HK-102X	C CAP.	1000pF 50V K
	C624	NCF21CZ-105X	C CAP.	1μF 16V Z
	C625	QETN1CM-107	E CAP.	100μF 16V M
	C626	QETN1EM-108	E CAP.	1000μF 25V M
	C627	QETN1HM-474	E CAP.	0.47μF 50V M
	C628	QETN1EM-108	E CAP.	1000μF 25V M
	C629	QETN1EM-108	E CAP.	1000μF 25V M
	C636	QETN1HM-105	E CAP.	1μF 50V M
	C637	QETN1HM-105	E CAP.	1μF 50V M
	C652	NCB31EK-104X	C CAP.	0.1μF 25V K
	C653	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
	C654	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
	C655	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
	C656	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
	C657	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
	C658	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
	C700	NCB31HK-102X	C CAP.	1000pF 50V K
	C701	QETN1HM-106	E CAP.	10μF 50V M
	C702	QETN1HM-106	E CAP.	10μF 50V M
	C703	QETN1HM-106	E CAP.	10μF 50V M
	C704	QETN1CM-107	E CAP.	100μF 16V M
	C705	NCB31HK-103X	C CAP.	0.01μF 50V K
	C706	QETN1HM-105	E CAP.	1μF 50V M
	C708	NDC31HJ-220X	C CAP.	22pF 50V J
	C709	NDC31HJ-220X	C CAP.	22pF 50V J
	C711	QETN1CM-107	E CAP.	100μF 16V M
	C712	NCB31HK-103X	C CAP.	0.01μF 50V K
	C716	QETN1HM-106	E CAP.	10μF 50V M
	C721	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
	C726	NDC31HJ-561X	C CAP.	560pF 50V J, 803S
	C728	NCB31HK-103X	C CAP.	0.01μF 50V K
	C807	QETN1AM-477	E CAP.	470μF 10V M
	C813	NCB31HK-102X	C CAP.	1000pF 50V K
	C815	NCB31HK-103X	C CAP.	0.01μF 50V K
	C851	QETN1EM-107	E CAP.	100μF 25V M
	C852	QETN1CM-107	E CAP.	100μF 16V M
	C853	QETN1CM-227	E CAP.	220μF 16V M
	C854	QETN1CM-227	E CAP.	220μF 16V M
	C856	QEHR1CM-227	E CAP.	220μF 16V M
	C857	QETN1CM-477	E CAP.	470μF 16V M
⚠	C901	QFZ9075-104	MPP CAP.	0.1μFAC275V M

⚠	Symbol No.	Part No.	Part Name	Description
⚠	OR	QFZ9072-104	MF CAP.	0.1µFAC275V K
⚠	C902	QFZ9072-473	MF CAP.	0.047µFAC275V K
⚠	OR	QFZ9075-473	MPP CAP.	0.047µFAC275V M
⚠	C903	QFZ9075-104	MPP CAP.	0.1µFAC275V M
⚠	OR	QFZ9072-104	MF CAP.	0.1µFAC275V K
⚠	C904	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C905	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C906	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C907	QEZ0169-477	E CAP.	470µF 200V M
⚠	C908	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	OR	QCZ9079-102	C CAP.	1000pFAC250V M
	C912	QCZ0340-222	C CAP.	2200pF 2kV K
	C913	QFLC1HJ-471Z	M CAP.	470pF 50V J
	C914	QETN1HM-107	E CAP.	100µF 50V M
	C916	NDC31HJ-331X	C CAP.	330pF 50V J
	C917	NCB31HK-182X	C CAP.	1800pF 50V K
	C918	NCB21HK-104X	C CAP.	0.1µF 50V K
	C919	QFP32GJ-103	PP CAP.	0.01µF 400V J
	C931	QEZ0203-227	E CAP.	220µF 160V M
	C933	QETN1CM-108	E CAP.	1000µF 16V M
	C934	NDC31HJ-151X	C CAP.	150pF 50V J
	C935	QETN1EM-108	E CAP.	1000µF 25V M
	C937	QCZ0340-102	C CAP.	1000pF 2kV K
	C938	QETM1EM-228	E CAP.	2200µF 25V M
	C939	QCB32HK-152	C CAP.	1500pF 500V K
	C941	QCB32HK-102	C CAP.	1000pF 500V K
	C942	QEHR1HM-105	E CAP.	1µF 50V M
	C951	QETN1EM-477	E CAP.	470µF 25V M
	C952	QETN1CM-227	E CAP.	220µF 16V M
	C971	QETN1CM-107	E CAP.	100µF 16V M
	C972	QETN1EM-476	E CAP.	47µF 25V M
	C973	QETN1HM-106	E CAP.	10µF 50V M
⚠	C997	QCZ9052-102	C CAP.	1000pFAC125V M
⚠	OR	QCZ9079-102	C CAP.	1000pFAC250V M
⚠	C998	QCZ9074-103	C CAP.	0.01µFAC250V M
⚠	C999	QCZ9074-103	C CAP.	0.01µFAC250V M
	L001	QQL244K-560Z	COIL	56µH K
	L101	QQLZ014-R22	COIL	
	L113	QQL244K-4R7Z	COIL	4.7µH K
	L131	QQL244K-150Z	COIL	15µH K
	L161	QQL244K-220Z	COIL	22µH K
	L232	QQL244K-560Z	COIL	56µH K
	L241	QQL244K-220Z	COIL	22µH K
	L391	QQL244K-220Z	COIL	22µH K
⚠	L511	QQR1165-001	LINEARITY COIL	
	L512	QQLZ027-821	COIL	
	OR	QQLZ036-821	COIL	
⚠	L521	QQR1333-001	COIL	
	L701	QQL244K-220Z	COIL	22µH K
	L702	QQL244K-220Z	COIL	22µH K
	L703	QQL244K-220Z	COIL	22µH K
	L704	QQL244K-220Z	COIL	22µH K
	L705	QQL244K-220Z	COIL	22µH K
	L931	QQL26AK-470Z	COIL	47µH K
	L933	QQL26AK-470Z	COIL	47µH K
	L940	QQR0582-001Z	FERRATE BEADS	
	CF001	QAX0349-001	C TRAP	
	CF131	QAX0639-001Z	C TRAP	
	CF161	QAX0642-001Z	CERAMIC FILTER	
	LC601	QQR1199-001	N FILTER	
	LC602	QQR1199-001	N FILTER	
	LC603	QQR1199-001	N FILTER	
	LC604	QQR1199-001	N FILTER, 803S	
	LC605	QQR1199-001	N FILTER, 803S	
	LC606	QQR1199-001	N FILTER, 803S	
	X701	QAX0717-001Z	CRYSTAL RESONATOR	
	S421	QSL4A13-C02	LEVER SWITCH	V.CENTER
	K401	QQR0621-002Z	FERRATE BEADS	
	K912	QQR0582-001Z	FERRATE BEADS	
	K914	QUY153-050Y	IM BUS WIRE	
	K916	QQR0582-001Z	FERRATE BEADS	
	K917	QQR0582-001Z	FERRATE BEADS	
	K918	QQR0582-001Z	FERRATE BEADS	
	K920	QQR0872-002	FERRATE BEADS	
	K931	QQR0582-001Z	FERRATE BEADS	
	K932	QQR0582-001Z	FERRATE BEADS	
	K933	QQR0621-002Z	FERRATE BEADS	
	K935	QQR0582-001Z	FERRATE BEADS	
⚠	PC921	TLP421F/D4-GR/	IC(PHOTO COUPLE	
⚠	RY951	QSK0085-001	RELAY	
⚠	OR	QSK0086-001	RELAY	
⚠	OR	QSK0130-001	RELAY	
⚠	TH901	QAD0132-3R0	P THERMISTOR	

⚠	Symbol No.	Part No.	Part Name	Description
	T111	QQR0907-001	IF.TRANSFORMER	
	T501	CE42034-002	HOR DRIVE TRANS	
⚠	T502	QQH0121-001	FB TRANSF	
⚠	T921	QQS0138-001	SW TRANSF	
⚠	T951	QQT0372-001	POWER TRANSF	
⚠	OR	QQT0355-001	POWER TRANSF	
	FC901	CEMG002-001Z	FUSE CLIP	
	FC902	CEMG002-001Z	FUSE CLIP	
	J601	QNN0349-002	PIN JACK	
	J602	QNN0349-002	PIN JACK, 803S	
	J810	QNS0001-001	JACK	
⚠	LF901	QQR1159-001	LINE FILTER	
⚠	LF902	QQR0527-004	LINE FILTER	
⚠	VA901	ERZV10V621CS	ZNR	
⚠	CP932	ICP-N70-T	CIRCUIT PROTECTOR	
⚠	CP936	ICP-N70-T	CIRCUIT PROTECTOR	
⚠	F901	QMF51U1-5R0-J8	FUSE	5.0A
⚠	F905	QMF20J49-5R0Z-E	FUSE	5.0A
	CN001	QGB1505J1-35	B TO B CONNE	
	CN002	QGB1505J1-25	B TO B CONNE, 803S	
	CN003	QGB1505J1-15	B TO B CONNE, 803S	
	CN004	QGA2501C5-07Z	W TO B CONNE	
	CN005	QGA2501C5-06Z	W TO B CONNE	
	CN007	QGA2501C5-06Z	W TO B CONNE	

CRT SOCKET P.W. BOARD ASS'Y (SGJ-3002A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	Q3103	2SA933AS/QR/-T	TRANSISTOR	
	Q3105	2SC1740S/QR/-T	TRANSISTOR	
	Q3106	2SA933AS/QR/-T	TRANSISTOR	
	Q3107	2SA1964/DE/	POW TRANSISTOR	
	Q3108	2SC5248/DE/	POW TRANSISTOR	
	Q3109	2SC1740S/QR/-T	TRANSISTOR	
	Q3151	2SC1740S/QR/-T	TRANSISTOR	
	Q3152	2SA933AS/QR/-T	TRANSISTOR	
	Q3301	2SC5083/L-P/-T	TRANSISTOR	
	Q3302	2SC5083/L-P/-T	TRANSISTOR	
	Q3303	2SC5083/L-P/-T	TRANSISTOR	
	Q3304	2SC5147/CDE/F43	POW TRANSISTOR	
	Q3305	2SC5147/CDE/F43	POW TRANSISTOR	
	Q3306	2SC5147/CDE/F43	POW TRANSISTOR	
	Q3351	2SA933AS/QR/-T	TRANSISTOR	
	D3101	1SS133	DIODE	
	D3105	RH1S-T3	DIODE	
	D3106	RH1S-T3	DIODE	
	D3301	1SS133	DIODE	
	D3302	1SS133	DIODE	
	D3303	1SS133	DIODE	
	D3304	1SS82	DIODE	
	D3305	1SS82	DIODE	
	D3306	1SS82	DIODE	
	D3311	MTZJ3.6B	ZENER DIODE	
	D3312	1SS133	DIODE	
	D3313	MTZJ4.3A	ZENER DIODE	
	D3314	1SS133	DIODE	
	D3331	1SS133	DIODE	
	D3351	1SS133	DIODE	
	D3352	1SS133	DIODE	
	D3353	1SS133	DIODE	
	D3354	1SS133	DIODE	
	D3361	QUY160-150Y	IM BUS WIRE	
	R3108	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3111	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R3114	QRJ146J-100X	C R	10Ω 1/4W J
	R3115	NRSA63J-470X	MG R	47Ω 1/16W J
	R3116	NRSA63J-470X	MG R	47Ω 1/16W J
	R3117	NRSA63J-102X	MG R	1kΩ 1/16W J
	R3119	NRSA63J-121X	MG R	120Ω 1/16W J
⚠	R3122	QRZ9021-561	F R	560Ω 1W J
	R3123	NRSA63J-122X	MG R	1.2kΩ 1/16W J
	R3124	NRSA63J-390X	MG R	39Ω 1/16W J
	R3125	NRSA63J-5R6X	MG R	5.6Ω 1/16W J
	R3126	NRSA63J-563X	MG R	56kΩ 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R3127	NRSA63J-563X	MG R	56kΩ 1/16W J
	R3128	NRSA63J-122X	MG R	1.2kΩ 1/16W J
	R3129	NRSA63J-5R6X	MG R	5.6Ω 1/16W J
	R3130	NRSA63J-390X	MG R	39Ω 1/16W J
	R3131	NRSA63J-121X	MG R	120Ω 1/16W J
	R3132	QRL029J-391	OM R	390Ω 2W J
	R3134	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R3136	NRSA63J-333X	MG R	33kΩ 1/16W J
	R3139	NRSA63J-681X	MG R	680Ω 1/16W J
	R3142	NRSA63J-124X	MG R	120kΩ 1/16W J
	R3143	NRSA63J-681X	MG R	680Ω 1/16W J
	R3145	NRSA63J-5R6X	MG R	5.6Ω 1/16W J
	R3146	NRSA63J-5R6X	MG R	5.6Ω 1/16W J
	R3151	NRSA63J-473X	MG R	47kΩ 1/16W J
	R3152	NRSA63J-683X	MG R	68kΩ 1/16W J
	R3153	NRSA63J-683X	MG R	68kΩ 1/16W J
	R3154	NRSA63J-473X	MG R	47kΩ 1/16W J
	R3301	NRSA63J-151X	MG R	150Ω 1/16W J
	R3302	NRSA63J-151X	MG R	150Ω 1/16W J
	R3303	NRSA63J-151X	MG R	150Ω 1/16W J
	R3304	NRSA63J-121X	MG R	120Ω 1/16W J
	R3305	NRSA63J-121X	MG R	120Ω 1/16W J
	R3306	NRSA63J-121X	MG R	120Ω 1/16W J
	R3307	NRSA63J-470X	MG R	47Ω 1/16W J
	R3308	NRSA63J-470X	MG R	47Ω 1/16W J
	R3309	NRSA63J-470X	MG R	47Ω 1/16W J
	R3310	QRG029J-153	OM R	15kΩ 2W J
	R3311	QRG029J-153	OM R	15kΩ 2W J
	R3312	QRG029J-153	OM R	15kΩ 2W J
	R3313	QRG029J-183	OM R	18kΩ 2W J
	R3314	QRG029J-183	OM R	18kΩ 2W J
	R3315	QRG029J-183	OM R	18kΩ 2W J
	R3316	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3317	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3318	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3325	QRC121K-102Z	MF R	1kΩ 1/2W K
	R3326	QRC121K-102Z	MF R	1kΩ 1/2W K
	R3327	QRC121K-102Z	MF R	1kΩ 1/2W K
	R3331	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R3332	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R3333	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R3334	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R3335	NRSA63J-271X	MG R	270Ω 1/16W J
	R3336	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3337	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3338	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R3351	NRSA63J-102X	MG R	1kΩ 1/16W J
	R3352	NRSA63J-102X	MG R	1kΩ 1/16W J
	R3353	NRSA63J-102X	MG R	1kΩ 1/16W J
	R3354	NRSA63J-102X	MG R	1kΩ 1/16W J
	R3362	QUY160-150Y	IM BUS WIRE	
	R3363	QRC121K-474Z	MF R	470kΩ 1/2W K
	C3101	QETN1HM-106	E CAP.	10μF 50V M
	C3109	QETN1CM-107	E CAP.	100μF 16V M
	C3110	NDC31HJ-221X	C CAP.	220pF 50V J
	C3111	NDC31HJ-221X	C CAP.	220pF 50V J
	C3113	QETN2CM-106	E CAP.	10μF 160V M
	C3114	QCB32HK-472	C CAP.	4700pF 500V K
	C3115	QCB32HK-472	C CAP.	4700pF 500V K
	C3117	QETN2CM-106	E CAP.	10μF 160V M
	C3118	QETN0JM-107	E CAP.	100μF 6.3V M
	C3119	QETN1AM-107	E CAP.	100μF 10V M
	C3120	QETN1AM-337	E CAP.	330μF 10V M
	C3121	QCS32HJ-151	C CAP.	150pF 500V J
	C3122	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
	C3125	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C3151	NCB21EK-104X	C CAP.	0.1μF 25V K
	C3152	NCB21EK-104X	C CAP.	0.1μF 25V K
	C3301	NDC31HJ-561X	C CAP.	560pF 50V J
	C3302	NDC31HJ-391X	C CAP.	390pF 50V J
	C3303	NDC31HJ-561X	C CAP.	560pF 50V J
	C3321	QETN2EM-105	E CAP.	1μF 250V M
	C3322	QETN2EM-105	E CAP.	1μF 250V M
	C3323	QETN1CM-107	E CAP.	100μF 16V M
	C3351	QETN1CM-107	E CAP.	100μF 16V M
	C3362	QUY153-050Y	IM BUS WIRE	
	C3363	QCZ0324-102	C CAP.	1000pF 3kV P
	L3301	QQL244K-180Z	COIL	18μH K
	L3302	QQL244K-180Z	COIL	18μH K
	L3303	QQL244K-180Z	COIL	18μH K
	L3304	QQL244K-470Z	COIL	47μH K
	L3305	QQL244K-470Z	COIL	47μH K
	L3306	QQL244K-470Z	COIL	47μH K
	K3102	CE41492-001Z	COIL	
	K3103	CE41492-001Z	COIL	
	K3104	CE41492-001Z	COIL	
	K3105	CE41492-001Z	COIL	
⚠	SK3001	QNZ0464-001	CRT SOCKET	
	CN3004	QJB003-073226	SIN ID C-B WIRE	
	CN3005	WJA0029-001A	E-S ID WIRE	

PIP P.W. BOARD ASS'Y
(SGJ-4001A-M2) [AV-27F803/S ONLY]

⚠	Symbol No.	Part No.	Part Name	Description
	SF4101	QAX0726-001	SAW FILTER	
⚠	TU4001	QAU0273-001	TUNER	
	IC4101	M52342SP	IC	
	IC4301	SDA9389X	IC	
	Q4101	2SC5083/L-P/-T	TRANSISTOR	
	Q4131	2SB709A/QR/-X	TRANSISTOR	
	Q4301	2SD601A/QR/-X	TRANSISTOR	
	Q4302	2SD601A/QR/-X	TRANSISTOR	
	Q4303	2SD601A/QR/-X	TRANSISTOR	
	Q4331	2SB709A/QR/-X	TRANSISTOR	
	Q4332	2SB709A/QR/-X	TRANSISTOR	
	Q4333	2SB709A/QR/-X	TRANSISTOR	
	D4301	1SS133	DIODE	
	R4001	NRSA63J-103X	MG R	10kΩ 1/16W J
	R4002	NRSA63J-103X	MG R	10kΩ 1/16W J
	R4003	NRSA63J-101X	MG R	100Ω 1/16W J
	R4004	NRSA63J-101X	MG R	100Ω 1/16W J
	R4005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R4008	NRSA63J-820X	MG R	82Ω 1/16W J
	R4101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R4102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R4103	QRE121J-101Y	C R	100Ω 1/2W J
	R4104	NRSA63J-180X	MG R	18Ω 1/16W J
	R4105	NRSA63J-270X	MG R	27Ω 1/16W J
	R4111	NRSA63J-224X	MG R	220kΩ 1/16W J
	R4113	NRSA63J-101X	MG R	100Ω 1/16W J
	R4114	NRSA63J-331X	MG R	330Ω 1/16W J
	R4115	NRSA63J-101X	MG R	100Ω 1/16W J
	R4116	NRSA63J-680X	MG R	68Ω 1/16W J
	R4117	NRSA63J-273X	MG R	27kΩ 1/16W J
	R4118	NRSA63J-223X	MG R	22kΩ 1/16W J
	R4120	NRSA63J-273X	MG R	27kΩ 1/16W J
	R4121	NRSA63J-103X	MG R	10kΩ 1/16W J
	R4131	NRSA63J-102X	MG R	1kΩ 1/16W J
	R4132	NRSA63J-331X	MG R	330Ω 1/16W J
	R4133	NRSA63J-821X	MG R	820Ω 1/16W J
	R4134	NRSA63J-561X	MG R	560Ω 1/16W J
	R4135	NRSA63J-102X	MG R	1kΩ 1/16W J
	R4161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R4163	NRSA63J-223X	MG R	22kΩ 1/16W J
	R4171	NRSA63J-103X	MG R	10kΩ 1/16W J
	R4301	NRSA63J-473X	MG R	47kΩ 1/16W J
	R4302	NRSA63J-223X	MG R	22kΩ 1/16W J
	R4303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R4304	NRSA63J-473X	MG R	47kΩ 1/16W J
	R4305	NRSA63J-223X	MG R	22kΩ 1/16W J
	R4306	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R4307	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R4308	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R4309	NRSA63J-102X	MG R	1kΩ 1/16W J
	R4311	NRSA63J-101X	MG R	100Ω 1/16W J
	R4313	NRSA63J-101X	MG R	100Ω 1/16W J
	R4314	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R4316	NRSA63J-331X	MG R	330Ω 1/16W J
	R4317	NRSA63J-0R0X	MG R	0.0Ω 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R4331	NRSA63J-221X	MG R	220Ω 1/16W J
	R4332	NRSA63J-102X	MG R	1kΩ 1/16W J
	R4337	NRSA63J-221X	MG R	220Ω 1/16W J
	R4338	NRSA63J-102X	MG R	1kΩ 1/16W J
	R4343	NRSA63J-221X	MG R	220Ω 1/16W J
	R4344	NRSA63J-102X	MG R	1kΩ 1/16W J
	C4001	QETN1HM-475	E CAP.	4.7μF 50V M
	C4003	QETN1HM-106	E CAP.	10μF 50V M
	C4004	QETN1CM-107	E CAP.	100μF 16V M
	C4006	QETN1EM-476	E CAP.	47μF 25V M
	C4101	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4102	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4104	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4105	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4106	QETN1EM-476	E CAP.	47μF 25V M
	C4107	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4113	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4114	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4116	QFVF1HJ-224Z	MF CAP.	0.22μF 50V J
	C4117	QETN1EM-476	E CAP.	47μF 25V M
	C4118	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4119	NDC31HJ-681X	C CAP.	680pF 50V J
	C4120	QETN1HM-474	E CAP.	0.47μF 50V M
	C4124	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4131	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4132	NDC31HJ-181X	C CAP.	180pF 50V J
	C4161	QETN1HM-106	E CAP.	10μF 50V M
	C4168	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4301	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C4302	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C4312	NDC31HJ-270X	C CAP.	27pF 50V J
	C4313	NDC31HJ-270X	C CAP.	27pF 50V J
	C4314	QETN1HM-106	E CAP.	10μF 50V M
	C4315	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4316	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4317	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4318	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4319	QETN1HM-106	E CAP.	10μF 50V M
	C4320	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4321	QETN1HM-105	E CAP.	1μF 50V M
	C4322	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4323	QETN1HM-106	E CAP.	10μF 50V M
	C4324	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4325	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4326	NCB31EK-104X	C CAP.	0.1μF 25V K
	C4327	QETN1HM-225	E CAP.	2.2μF 50V M
	C4328	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4329	QETN1HM-225	E CAP.	2.2μF 50V M
	C4330	NCB31HK-103X	C CAP.	0.01μF 50V K
	C4331	NCB31EK-104X	C CAP.	0.1μF 25V K
	L4001	QQL244K-560Z	COIL	56μH K
	L4101	QQLZ014-R22	COIL	
	L4113	QQL244K-4R7Z	COIL	4.7μH K
	L4131	QQL244K-150Z	COIL	15μH K
	L4302	QQL244J-6R8Z	COIL	6.8μH J
	L4303	QQL244J-6R8Z	COIL	6.8μH J
	L4304	QQL244J-6R8Z	COIL	6.8μH J
	CF4131	QAX0639-001Z	C TRAP	
	X4301	QAX0521-001Z	CRYSTAL RESONATOR	
	T4111	QQR0907-001	IF.TRANSFORMER	
	CN4002	QGB1505K1-25	B TO B CONNE	

AV SEL P.W. BOARD ASS'Y

(SGJ-5001A-M2) [AV-27F803/S]

⚠	Symbol No.	Part No.	Part Name	Description
	IC5001	CXA2134Q	IC	
	IC5151	NJM2150AD	IC	
	IC5301	PQ3RD13	IC	
	IC5501	TA1218AN	IC	
	Q5001	2SB709A/QR/-X	TRANSISTOR	
	Q5002	2SB709A/QR/-X	TRANSISTOR	
	Q5384	DTC323TK	DIGI TRANSISTOR	
	Q5385	DTC323TK	DIGI TRANSISTOR	
	Q5386	DTC323TK	DIGI TRANSISTOR	
	Q5387	DTC323TK	DIGI TRANSISTOR	
	Q5501	2SB709A/QR/-X	TRANSISTOR	
	D5391	MTZJ9.1C	ZENER DIODE	
	D5392	MTZJ9.1C	ZENER DIODE	
	D5501	MTZJ9.1C	ZENER DIODE	
	D5502	MTZJ9.1C	ZENER DIODE	
	D5503	MTZJ9.1C	ZENER DIODE	
	D5504	MTZJ9.1C	ZENER DIODE	
	D5505	MTZJ9.1C	ZENER DIODE	
	D5507	MTZJ9.1C	ZENER DIODE	
	D5508	MTZJ9.1C	ZENER DIODE	
	D5509	MTZJ9.1C	ZENER DIODE	
	D5510	MTZJ9.1C	ZENER DIODE	
	D5511	MTZJ9.1C	ZENER DIODE	
	D5512	MTZJ9.1C	ZENER DIODE	
	D5513	MTZJ9.1C	ZENER DIODE	
	D5514	MTZJ9.1C	ZENER DIODE	
	D5515	MTZJ9.1C	ZENER DIODE	
	R5001	NRSA63J-105X	MG R	1MΩ 1/16W J
	R5002	NRSA63J-104X	MG R	100kΩ 1/16W J
	R5003	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R5004	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R5005	NRSA63F-623X	MG R	62kΩ 1/16W F
	R5007	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R5008	NRSA63J-302X	MG R	3kΩ 1/16W J
	R5010	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R5011	NRSA63J-221X	MG R	220Ω 1/16W J
	R5012	NRSA63J-221X	MG R	220Ω 1/16W J
	R5031	NRSA63J-101X	MG R	100Ω 1/16W J
	R5032	NRSA63J-101X	MG R	100Ω 1/16W J
	R5033	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R5034	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R5151	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5152	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5153	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5154	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5155	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5157	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5159	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5301	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5302	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5384	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5385	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5386	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5387	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5391	NRSA63J-221X	MG R	220Ω 1/16W J
	R5392	NRSA63J-221X	MG R	220Ω 1/16W J
	R5393	NRSA63J-823X	MG R	82kΩ 1/16W J
	R5394	NRSA63J-823X	MG R	82kΩ 1/16W J
	R5395	NRSA63J-221X	MG R	220Ω 1/16W J
	R5396	NRSA63J-221X	MG R	220Ω 1/16W J
	R5501	NRSA63J-221X	MG R	220Ω 1/16W J
	R5502	NRSA63J-221X	MG R	220Ω 1/16W J
	R5503	NRSA63J-221X	MG R	220Ω 1/16W J
	R5504	NRSA63J-221X	MG R	220Ω 1/16W J
	R5505	NRSA63J-221X	MG R	220Ω 1/16W J
	R5507	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5508	NRSA63J-153X	MG R	15kΩ 1/16W J
	R5509	NRSA63J-221X	MG R	220Ω 1/16W J
	R5510	NRSA63J-221X	MG R	220Ω 1/16W J
	R5511	NRSA63J-221X	MG R	220Ω 1/16W J
	R5512	NRSA63J-221X	MG R	220Ω 1/16W J
	R5513	NRSA63J-153X	MG R	15kΩ 1/16W J
	R5514	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5515	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5516	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5517	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5519	NRSA63J-750X	MG R	75Ω 1/16W J
	R5520	NRSA63J-750X	MG R	75Ω 1/16W J
	R5521	NRSA63J-750X	MG R	75Ω 1/16W J
	R5522	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5523	NRSA63J-224X	MG R	220kΩ 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R5524	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5526	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5527	NRSA63J-750X	MG R	75Ω 1/16W J
	R5532	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5533	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5541	NRSA63J-221X	MG R	220Ω 1/16W J
	R5542	NRSA63J-221X	MG R	220Ω 1/16W J
	R5543	NRSA63J-221X	MG R	220Ω 1/16W J
	R5544	NRSA63J-331X	MG R	330Ω 1/16W J
	R5545	NRSA63J-331X	MG R	330Ω 1/16W J
	R5546	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5558	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5559	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5560	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5561	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5564	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5565	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5566	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5567	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5568	NRSA63J-221X	MG R	220Ω 1/16W J
	R5569	NRSA63J-221X	MG R	220Ω 1/16W J
	C5001	QENC1HM-475	E CAP.	4.7μF 50V M
	C5002	NCB31HK-562X	C CAP.	5600pF 50V K
	C5003	NCB31HK-123X	C CAP.	0.012μF 50V K
	C5004	QETN1HM-105	E CAP.	1μF 50V M
	C5005	QETN1HM-475	E CAP.	4.7μF 50V M
	C5006	QETN1HM-106	E CAP.	10μF 50V M
	C5007	QETN1HM-475	E CAP.	4.7μF 50V M
	C5008	QETN1CM-107	E CAP.	100μF 16V M
	C5009	QENC1HM-475	E CAP.	4.7μF 50V M
	C5010	QETN1HM-475	E CAP.	4.7μF 50V M
	C5011	QENC1HM-475	E CAP.	4.7μF 50V M
	C5012	NCB31HK-272X	C CAP.	2700pF 50V K
	C5013	NCB31HK-473X	C CAP.	0.047μF 50V K
	C5014	QENC1HM-475	E CAP.	4.7μF 50V M
	C5015	QBTC1CK-106Z	TAN.CAP.	10μF 16V K
	C5016	QETN1HM-105	E CAP.	1μF 50V M
	C5017	QENC1HM-105	E CAP.	1μF 50V M
	C5018	QENC1HM-105	E CAP.	1μF 50V M
	C5019	NCB31HK-223X	C CAP.	0.022μF 50V K
	C5020	NCB31HK-472X	C CAP.	4700pF 50V K
	C5021	QENC1HM-475	E CAP.	4.7μF 50V M
	C5022	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5023	NCB31HK-472X	C CAP.	4700pF 50V K
	C5024	QENC1HM-475	E CAP.	4.7μF 50V M
	C5025	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5026	QBTC1CK-335Z	TAN.CAP.	3.3μF 16V K
	C5031	QETN1HM-106	E CAP.	10μF 50V M
	C5151	QENC1HM-105	E CAP.	1μF 50V M
	C5152	QENC1HM-105	E CAP.	1μF 50V M
	C5153	NCB31HK-332X	C CAP.	3300pF 50V K
	C5154	NCB31HK-332X	C CAP.	3300pF 50V K
	C5155	NCB31EK-333X	C CAP.	0.033μF 25V K
	C5156	NCB31EK-333X	C CAP.	0.033μF 25V K
	C5157	QETN1HM-106	E CAP.	10μF 50V M
	C5158	QETN1HM-106	E CAP.	10μF 50V M
	C5159	QETN1EM-476	E CAP.	47μF 25V M
	C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5301	QETN1EM-476	E CAP.	47μF 25V M
	C5302	QETN1AM-227	E CAP.	220μF 10V M
	C5391	QETN1HM-474	E CAP.	0.47μF 50V M
	C5392	QETN1HM-474	E CAP.	0.47μF 50V M
	C5501	QETN1HM-225	E CAP.	2.2μF 50V M
	C5502	QETN1HM-225	E CAP.	2.2μF 50V M
	C5503	QETN1HM-106	E CAP.	10μF 50V M
	C5504	QENC1CM-106	E CAP.	10μF 16V M
	C5506	QETN1HM-106	E CAP.	10μF 50V M
	C5508	QETN1HM-106	E CAP.	10μF 50V M
	C5509	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5520	QETN1HM-225	E CAP.	2.2μF 50V M
	C5521	QETN1HM-225	E CAP.	2.2μF 50V M
	C5531	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5532	QETN1EM-476	E CAP.	47μF 25V M
	C5533	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5534	QENC1CM-106	E CAP.	10μF 16V M
	C5544	QETN1HM-225	E CAP.	2.2μF 50V M
	C5545	QETN1HM-225	E CAP.	2.2μF 50V M
	J5501	QNZ0454-001	AV JACK	
	J5502	QNNC349-001	PIN JACK	
	J5503	QNNC348-001	PIN JACK	
	J5504	QNNC348-001	PIN JACK	
	CN5M01	QGC2505C2-38	CARD EDGE CONNE,803S	
	CN5001	QGB1505K1-35	B TO B CONNE	
	CN5003	QGB1505K1-15	B TO B CONNE	
	CN5006	QGA2501C5-05Z	W TO B CONNE	

AV SEL P.W. BOARD ASS'Y (SGJ-5002A-M2) [AV-27F703/S] [AV-27F713/S]

⚠	Symbol No.	Part No.	Part Name	Description
	IC5001	CXA2134Q	IC	
	IC5151	NJM2150AD	IC	
	IC5201	TC90A49P	IC	
	IC5501	TA1218AN	IC	
	Q5001	2SB709A/QR/-X	TRANSISTOR	
	Q5002	2SB709A/QR/-X	TRANSISTOR	
	Q5211	2SD601A/QR/-X	TRANSISTOR	
	Q5212	2SD601A/QR/-X	TRANSISTOR	
	Q5251	2SD601A/QR/-X	TRANSISTOR	
	Q5252	2SB709A/QR/-X	TRANSISTOR	
	Q5253	2SB709A/QR/-X	TRANSISTOR	
	Q5261	2SB709A/QR/-X	TRANSISTOR	
	Q5262	2SD601A/QR/-X	TRANSISTOR	
	Q5263	2SB709A/QR/-X	TRANSISTOR	
	Q5384	DTC323TK	DIGI TRANSISTOR	
	Q5385	DTC323TK	DIGI TRANSISTOR	
	Q5386	DTC323TK	DIGI TRANSISTOR	
	Q5387	DTC323TK	DIGI TRANSISTOR	
	Q5501	2SB709A/QR/-X	TRANSISTOR	
	D5391	MTZJ9.1C	ZENER DIODE	
	D5392	MTZJ9.1C	ZENER DIODE	
	D5501	MTZJ9.1C	ZENER DIODE	
	D5502	MTZJ9.1C	ZENER DIODE	
	D5503	MTZJ9.1C	ZENER DIODE	
	D5504	MTZJ9.1C	ZENER DIODE	
	D5505	MTZJ9.1C	ZENER DIODE	
	D5507	MTZJ9.1C	ZENER DIODE	
	D5508	MTZJ9.1C	ZENER DIODE	
	D5509	MTZJ9.1C	ZENER DIODE	
	D5510	MTZJ9.1C	ZENER DIODE	
	D5511	MTZJ9.1C	ZENER DIODE	
	D5512	MTZJ9.1C	ZENER DIODE	
	D5513	MTZJ9.1C	ZENER DIODE	
	R5001	NRSA63J-105X	MG R	1MΩ 1/16W J
	R5002	NRSA63J-104X	MG R	100kΩ 1/16W J
	R5003	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R5004	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R5005	NRSA63F-623X	MG R	62kΩ 1/16W F
	R5007	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R5008	NRSA63J-302X	MG R	3kΩ 1/16W J
	R5010	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R5011	NRSA63J-221X	MG R	220Ω 1/16W J
	R5012	NRSA63J-221X	MG R	220Ω 1/16W J
	R5031	NRSA63J-101X	MG R	100Ω 1/16W J
	R5032	NRSA63J-101X	MG R	100Ω 1/16W J
	R5033	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R5034	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R5151	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5152	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5153	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5154	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5155	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5157	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5159	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5210	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5211	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R5212	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5213	NRSA63J-102X	MG R	1kΩ 1/16W J
	R5214	NRSA63J-181X	MG R	180Ω 1/16W J
	R5215	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R5216	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R5217	NRSA63J-222X	MG R	2.2kΩ 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R5240	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5241	NRSA63J-821X	MG R	820Ω 1/16W J
	R5242	NRSA63J-101X	MG R	100Ω 1/16W J
	R5243	NRSA63J-101X	MG R	100Ω 1/16W J
	R5251	NRSA63J-471X	MG R	470Ω 1/16W J
	R5253	NRSA63J-102X	MG R	1kΩ 1/16W J
	R5254	NRSA63J-102X	MG R	1kΩ 1/16W J
	R5255	NRSA63J-681X	MG R	680Ω 1/16W J
	R5258	NRSA63J-101X	MG R	100Ω 1/16W J
	R5259	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R5261	NRSA63J-101X	MG R	100Ω 1/16W J
	R5262	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R5263	NRSA63J-471X	MG R	470Ω 1/16W J
	R5265	NRSA63J-102X	MG R	1kΩ 1/16W J
	R5269	NRSA63J-681X	MG R	680Ω 1/16W J
	R5270	NRSA63J-102X	MG R	1kΩ 1/16W J
	R5384	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5385	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5386	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5387	NRSA63J-223X	MG R	22kΩ 1/16W J
	R5391	NRSA63J-221X	MG R	220Ω 1/16W J
	R5392	NRSA63J-221X	MG R	220Ω 1/16W J
	R5393	NRSA63J-823X	MG R	82kΩ 1/16W J
	R5394	NRSA63J-823X	MG R	82kΩ 1/16W J
	R5395	NRSA63J-221X	MG R	220Ω 1/16W J
	R5396	NRSA63J-221X	MG R	220Ω 1/16W J
	R5501	NRSA63J-221X	MG R	220Ω 1/16W J
	R5502	NRSA63J-221X	MG R	220Ω 1/16W J
	R5503	NRSA63J-221X	MG R	220Ω 1/16W J
	R5504	NRSA63J-221X	MG R	220Ω 1/16W J
	R5505	NRSA63J-221X	MG R	220Ω 1/16W J
	R5507	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5508	NRSA63J-153X	MG R	15kΩ 1/16W J
	R5509	NRSA63J-221X	MG R	220Ω 1/16W J
	R5510	NRSA63J-221X	MG R	220Ω 1/16W J
	R5511	NRSA63J-221X	MG R	220Ω 1/16W J
	R5512	NRSA63J-221X	MG R	220Ω 1/16W J
	R5513	NRSA63J-153X	MG R	15kΩ 1/16W J
	R5514	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5515	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5516	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5517	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5519	NRSA63J-750X	MG R	75Ω 1/16W J
	R5520	NRSA63J-750X	MG R	75Ω 1/16W J
	R5521	NRSA63J-750X	MG R	75Ω 1/16W J
	R5522	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5523	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5524	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5526	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5527	NRSA63J-750X	MG R	75Ω 1/16W J
	R5532	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5533	NRSA63J-224X	MG R	220kΩ 1/16W J
	R5541	NRSA63J-221X	MG R	220Ω 1/16W J
	R5542	NRSA63J-221X	MG R	220Ω 1/16W J
	R5543	NRSA63J-221X	MG R	220Ω 1/16W J
	R5544	NRSA63J-331X	MG R	330Ω 1/16W J
	R5545	NRSA63J-331X	MG R	330Ω 1/16W J
	R5546	NRSA63J-103X	MG R	10kΩ 1/16W J
	R5558	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5559	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5560	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5561	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5564	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R5565	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C5001	QENC1HM-475	E CAP.	4.7μF 50V M
	C5002	NCB31HK-562X	C CAP.	5600pF 50V K
	C5003	NCB31HK-123X	C CAP.	0.012μF 50V K
	C5004	QETN1HM-105	E CAP.	1μF 50V M
	C5005	QETN1HM-475	E CAP.	4.7μF 50V M
	C5006	QETN1HM-106	E CAP.	10μF 50V M
	C5007	QETN1HM-475	E CAP.	4.7μF 50V M
	C5008	QETN1CM-107	E CAP.	100μF 16V M
	C5009	QENC1HM-475	E CAP.	4.7μF 50V M
	C5010	QETN1HM-475	E CAP.	4.7μF 50V M
	C5011	QENC1HM-475	E CAP.	4.7μF 50V M
	C5012	NCB31HK-272X	C CAP.	2700pF 50V K
	C5013	NCB31HK-473X	C CAP.	0.047μF 50V K
	C5014	QENC1HM-475	E CAP.	4.7μF 50V M
	C5015	QBTC1CK-106Z	TAN.CAP.	10μF 16V K

⚠	Symbol No.	Part No.	Part Name	Description
	C5016	QETN1HM-105	E CAP.	1μF 50V M
	C5017	QENC1HM-105	E CAP.	1μF 50V M
	C5018	QENC1HM-105	E CAP.	1μF 50V M
	C5019	NCB31HK-223X	C CAP.	0.022μF 50V K
	C5020	NCB31HK-472X	C CAP.	4700pF 50V K
	C5021	QENC1HM-475	E CAP.	4.7μF 50V M
	C5022	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5023	NCB31HK-472X	C CAP.	4700pF 50V K
	C5024	QENC1HM-475	E CAP.	4.7μF 50V M
	C5025	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5026	QBTC1CK-335Z	TAN.CAP.	3.3μF 16V K
	C5031	QETN1HM-106	E CAP.	10μF 50V M
	C5151	QENC1HM-105	E CAP.	1μF 50V M
	C5152	QENC1HM-105	E CAP.	1μF 50V M
	C5153	NCB31HK-332X	C CAP.	3300pF 50V K
	C5154	NCB31HK-332X	C CAP.	3300pF 50V K
	C5155	NCB31EK-333X	C CAP.	0.033μF 25V K
	C5156	NCB31EK-333X	C CAP.	0.033μF 25V K
	C5157	QETN1HM-106	E CAP.	10μF 50V M
	C5158	QETN1HM-106	E CAP.	10μF 50V M
	C5159	QETN1EM-476	E CAP.	47μF 25V M
	C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
	C5203	QETN1EM-476	E CAP.	47μF 25V M
	C5204	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5205	QETN1EM-476	E CAP.	47μF 25V M
	C5206	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5211	QENC1CM-106	E CAP.	10μF 16V M
	C5212	NDC31HJ-101X	C CAP.	100pF 50V J
	C5213	NDC31HJ-470X	C CAP.	47pF 50V J
	C5214	NDC31HJ-181X	C CAP.	180pF 50V J
	C5215	QETN1HM-474	E CAP.	0.47μF 50V M
	C5226	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5231	QETN1CM-107	E CAP.	100μF 16V M
	C5232	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5233	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5234	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5235	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5236	QETN1CM-107	E CAP.	100μF 16V M
	C5237	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5238	QETN1CM-107	E CAP.	100μF 16V M
	C5239	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5240	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5241	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5242	QETN1CM-107	E CAP.	100μF 16V M
	C5243	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5246	NDC31HJ-181X	C CAP.	180pF 50V J
	C5247	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5251	QETN1EM-476	E CAP.	47μF 25V M
	C5252	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5253	NDC31HJ-820X	C CAP.	82pF 50V J
	C5255	NDC31HJ-470X	C CAP.	47pF 50V J
	C5263	NDC31HJ-150X	C CAP.	15pF 50V J
	C5391	QETN1HM-474	E CAP.	0.47μF 50V M
	C5392	QETN1HM-474	E CAP.	0.47μF 50V M
	C5501	QETN1HM-225	E CAP.	2.2μF 50V M
	C5502	QETN1HM-225	E CAP.	2.2μF 50V M
	C5503	QETN1HM-106	E CAP.	10μF 50V M
	C5504	QENC1CM-106	E CAP.	10μF 16V M
	C5506	QETN1HM-106	E CAP.	10μF 50V M
	C5508	QETN1HM-106	E CAP.	10μF 50V M
	C5509	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5520	QETN1HM-225	E CAP.	2.2μF 50V M
	C5521	QETN1HM-225	E CAP.	2.2μF 50V M
	C5531	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5532	QETN1EM-476	E CAP.	47μF 25V M
	C5533	NCB31HK-103X	C CAP.	0.01μF 50V K
	C5534	QENC1CM-106	E CAP.	10μF 16V M
	L5201	QUY153-050Y	IM BUS WIRE	
	L5202	QQL244K-150Z	COIL	15μH K
	L5211	QQL244K-4R7Z	COIL	4.7μH K
	L5241	QQL244K-4R7Z	COIL	4.7μH K
	L5242	QUY153-050Y	IM BUS WIRE	
	L5243	QQL244K-4R7Z	COIL	4.7μH K
	L5244	QQL244K-4R7Z	COIL	4.7μH K
	L5251	QUY153-050Y	IM BUS WIRE	
	L5261	QQL244K-150Z	COIL	15μH K
	J5501	QNZ0454-001	AV JACK	
	J5502	QNN0349-001	PIN JACK	
	J5503	QNN0348-001	PIN JACK	
	CN5001	QGB1505K1-35	B TO B CONNE	
	CN5006	QGA2501C5-05Z	W TO B CONNE	

FRONT CONTROL P.W. BOARD ASS'Y (SGJ-6001A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	R6401	NRSA63J-750X	MG R	75Ω 1/16W J
	R6402	NRSA63J-224X	MG R	220kΩ 1/16W J
	R6403	NRSA63J-224X	MG R	220kΩ 1/16W J
	R6702	NRSA63J-102X	MG R	1kΩ 1/16W J
	R6703	NRSA63J-102X	MG R	1kΩ 1/16W J
	R6704	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R6705	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R6706	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	C6401	QETN1HM-106	E CAP.	10μF 50V M
	C6402	QETN1HM-225	E CAP.	2.2μF 50V M
	C6403	QETN1HM-225	E CAP.	2.2μF 50V M
	LC6401	QQR1199-001	N FILTER	
	S6702	QSW0619-003Z	TACT SWITCH	MENU
	S6703	QSW0619-003Z	TACT SWITCH	CH-
	S6704	QSW0619-003Z	TACT SWITCH	CH+
	S6705	QSW0619-003Z	TACT SWITCH	VOL-
	S6706	QSW0619-003Z	TACT SWITCH	VOL+
	J6401	CEMN065-001	PIN JACK	
	OR	QNNQ281-003	PIN JACK	
	J6402	CEMN065-002	PIN JACK	
	OR	QNNQ281-002	PIN JACK	
	J6403	CEMN072-003	PIN JACK	
	OR	QNNQ282-001	PIN JACK	
	CN6006	QJB003-054010	SIN ID C-B WIRE	
	CN6007	QJB003-064426	SIN ID C-B WIRE	

LED & POWER SW P.W. BOARD ASS'Y (SGJ-7001A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
		LC30190-001B-A	LED HOLDER	
	IC7701	GP1UM281QK	IR DETECT UNIT	
	Q7702	UN2112	DIGI TRANSISTOR	
	D7701	LH22440	LE DIODE	
	R7708	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R7709	NRSA63J-561X	MG R	560Ω 1/16W J
	R7710	NRSA63J-101X	MG R	100Ω 1/16W J
	R7711	NRSA63J-101X	MG R	100Ω 1/16W J
	C7701	QETN1EM-476	E CAP.	47μF 25V M
	S7701	QSW0847-001	TACT SWITCH	POWER SW

3D Y/C SEP MODULE P.W. BOARD ASS'Y (SGJ0Y001A-M2) [AV-27F803/S ONLY]

⚠	Symbol No.	Part No.	Part Name	Description
		SGJ0Y001A-M2	3D Y/C SEP MODULE P	

REMOTE COTROL UNIT PARTS LIST

[AV-27F703/S] (RM-C326G-1A)

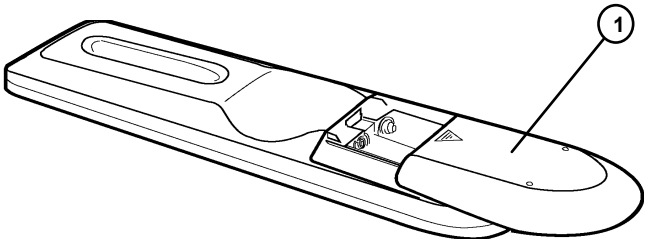
⚠	Ref.No.	Part No.	Part Name	Description
	1	UR52EC1286C	BATTERY COVER	

[AV-27F713/S] (RM-C326-1A)

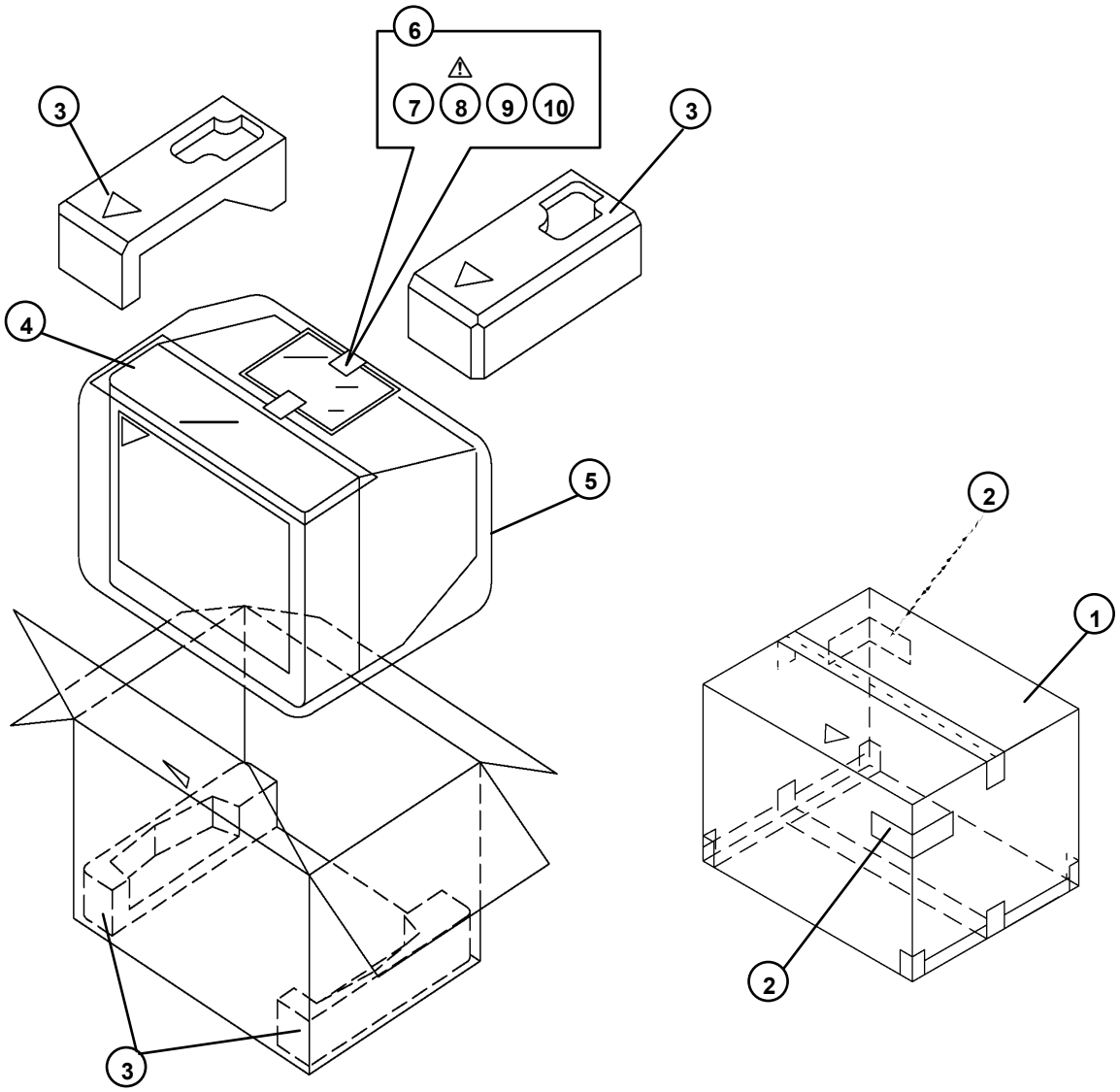
⚠	Ref.No.	Part No.	Part Name	Description
	1	UR52EC1286A	BATTERY COVER	

[AV-27F803/S] (RM-C325G-1A)

⚠	Ref.No.	Part No.	Part Name	Description
	1	UR52EC1286C	BATTERY COVER	



PACKING



[AV-27F703/S] [AV-27F713/S] [AV-27F803/S]

PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
	1	LC10181-025B-A	PACKING CASE	
	2	CM36616-001-A	CORNERLABEL	2pcs in 1set
	3	LC10884-002A-A	CUSHION ASSY	4pcs in 1set
	4	CP30055-001-A	TOP COVER	
	5	CP30056-008-A	POLY BAG	
	6	QPA02503505	POLY BAG	
	7	RM-C326G-1A	REMOCON UNIT	[AV-27F703/S]
	7	RM-C326-1A	REMOCON UNIT	[AV-27F713/S]
	7	RM-C325G-1A	REMOCON UNIT	[AV-27F803/S]
⚠	8	LCT1134-001A-A	INSTRUCTIONS BOOK	
	9	BT-51028-2Q	REGISTRATION C	
	10	BT-52006-1Q	WARRANTY CARD	

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